Volume: 4 Issue: 1

Smriti

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H.O.D's DESK

I am very pleased to see another issue of Smriti getting rolled out with an impressive list of activities and achievements by both faculty as well as students. I appreciate the efforts of Angel, Sarath, Rajalakshmi and Lakshmipriya in organizing a workshop on embedded software development, which received a lot of positive feedback from the students. My heartfelt thanks to our alumni, Thiagesh and Seshan who came as resource persons for the workshop and kindled the interest in developing such projects among students. I also wish to thank Sheeraz, Prof. Milton and Bala for organizing a seminar on selected topics of Advanced Data Structures and Algorithms.

My appreciations to Sheeraz for introducing the wonderful world of Model Checking with the help of experts from CMI. I wish to see more students doing projects in this interesting area. I appreciate the ACM student chapter for conducting the interesting workshop on su Python and Machine Learning.

My congratulations to Dr. R. Kanchana, Dr. T. T. Mirnalinee and Dr. Felix Enigo in getting their project proposal approved for internal funding by our management. I am also very happy to see the increasing interest among students towards submitting interesting project proposals for internal funding. The number of approved student projects has increased from 8 in the last year to 15 this year. Hope to see interesting results from these projects at the end of next semester.

My compliments to the office bearers of the Association of Computer Engineers for conducting the annual technical symposium PARADIGM successfully. The decorations definitely need a special mention, particularly, the Iron Throne was fantastic.

I feel very proud to see the coveted super-dream placement offers by Amazon and Real Image Media being bagged by our students. Hearty congratulations to Siddharth, Sudharsan and Satish for their achievement. I also congratulate all the other students who have received excellent job offers from various companies.

I am happy to see our alumnus, Sesha Kumar, sharing his experiences related to higher studies at USA. It feels good to see our alumnus Narendran doing well in Google and presenting his research findings at a prestigious conference.

Let us strive for further continued excellence in all aspects during the coming year.

FACULTY ACTIVITIES

1. **Dr. Chitra Babu** was invited to participate in a discussion on *"Academic Community Cloud Initiative"* with the director and joint director of C-DAC along with few other institutes.

2. **Dr. T. T. Mirnalinee** gave training on *Business Analytics* for the employers of E&Y, Trivandrum

3. **Dr. Chitra babu**, **Dr. T. T. Mirnalinee**, **Dr. R. Kanchana** and **Dr. J. Suresh** visited Caterpillar, along with students to attend the project review meeting.

4. **Dr. Shomona GJ** was invited to present a project proposal for possible External Funding before the Task Force on Cognitive Science - Department of Science and Technology at the Goan Heritage, Goa. This proposal was submitted under the DST Cognitive Science Research Initiative Scheme.

5. **Mr. K. R. Sarath Chandran** attended one day technical seminar on *"Embedded Linux on ZYNQ Board"* held on 18th September 2015 organized by VIT Chennai, in collaboration with CoreEL and Digilent Inc.

6. **Ms.S. Lakshmi Priya** attended a two day workshop on *"Model Checking"* conducted at CSE Department, SSNCE on 18th and 19th September 2015.

7. **Dr. A. Chamundeswari**, **Dr. B. Bharathi**, **Ms. S. Kavitha**, **Mr. N. Sujaudeen** and **Mr .H. Shahul Hamead** attended IEEE Authorship Workshop on *"How to Publish a Technical Paper with IEEE"* on 20-08-2015 at IIT Madras.

8. **Mr. S. Senthilvelan** and **Dr. Shomona GJ** attended the One-Day Hands-On *Moodle Workshop* conducted at SSNCE.

Did You Know?

In 1971, the first speech recognition software ***"Hearsay"*** was developed in India.

FACULTY PUBLICATIONS

1. **Shomona GJ** and **R Geetha Ramani** published a paper titled *"HIV1-Human Protein-Protein Interaction Prediction (HHPPIP) Methodology: An FP-Growth Based Association Rule Mining Approach"* in Current Bioinformatics, 10(4), 2015. The journal is indexed in Thomson Reuters with a 5-yr Impact Factor of 1.045. DOI: 10.2174/1574893610041509221502 33

2. **D. Thenmozhi** and **Chandrabose Aravindan** has published a paper titled *"An Automatic and Clause-Based Approach to Learn Relations for Ontologies"* in The Computer Journal, Oxford University Press, doi:10.1093/comjnl/bxv071.

3. **D. Thenmozhi** and **Chandrabose Aravindan** published a paper titled *"Paraphrase Identification by Using Clause-Based Similarity Features and Machine Translation Metrics"* in The Computer Journal, Oxford University Press, October 2015, doi:10.1093/comjnl/bxv083.

4. **Shashaank D.S**, **Sruthi.V**, **Vijayalakshimi M.L.S** and **Shomona Gracia Jacob**, *"Investigations on the suitability of Data Mining Techniques in Stock Market Turnover Prediction"*, in Proceedings of the International Conference on Machine Learning and Data Analysis, WCECS, held at San Francisco, USA October 2015.

5. **S.Sahayaraj**, **S.G Jacob**, *"Knowledge Discovery through Computational Methods on EEG and fMRI Data"*, in Proceedings of the International Conference on Computer Science and Application ICCSA- World Congress on Engineering and Computer Science, held at San Francisco, October 2015.

6. **R. Priyadharsini**, **T. Sree Sharmila**, **V. Rajendran**,*"Underwater Acoustic Image Enhancement Using Wavelet And K-L Transform*" in Proceedings of the IEEE International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT -2015), held at Bapuji Institute of Engineering & Technology (BIET), Davangere, Karnataka, India from 29 - 31 October 2015. IEEE Part Number: CFP15D66-USB IEEE ISBN: 978-1-4673-9222-8

7. **Sruthi V**, **Naren T Kesh**, **Priyanka R**, **Shomona Gracia Jacob**, *"Binary Categorization of DNA Data with Unbalanced Class Distribution for Prediction of Hepatocellular Carcinoma"*, in Proceedings of the IEEE International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT - 2015), held at Bapuji Institute of Engineering & Technology (BIET), Davangere, Karnataka, India from 29 - 31 October 2015. IEEE Part Number: CFP15D66-USB IEEE ISBN: 978-1-4673-9222-8

FACULTY PUBLICATIONS

8. **Nivetha Thiruverahan**, **Priyanka Ravi**, **Shomona Gracia Jacob**, *"Adaptive Traffic Management and Dynamic Optimal Redirection Using Particle Swarm Optimization"* in Proceedings of the IEEE International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT -2015), held at Bapuji Institute of Engineering & Technology (BIET), Davangere, Karnataka, India from 29 - 31 October 2015. IEEE Part Number: CFP15D66-USB IEEE ISBN: 978-1-4673-9222-8

9. **Y.V.Lokeswari** and **Shomona Gracia Jacob**, *"A Cloud-Based Data Mining Framework for Improved Clinical Diagnosis Through Parallel Classification"*, in Proceedings of the IEEE International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT -2015), held at Bapuji Institute of Engineering & Technology (BIET), Davangere, Karnataka, India from 29 - 31 October 2015. IEEE Part Number: CFP15D66-USB IEEE ISBN: 978-1-4673-9222-8.

FACULTY PROJECT APPROVED FOR INTERNAL FUNDING

Proposal	:	IOT based Smart Sewage System (IS3)
Submitted by	:	Dr. R. Kanchana, Dr. T. T. Mirnalinee
		Dr. V. S. Felix Enigo
Amount Sanctioned	:	Rs. 6 Lakhs
Duration	:	2 Years

Dr. R. Kanchana

Dr. T. T. Mirnalinee

Dr. V. S. Felix Enigo

INVITED TALKS

Dr. Chitra Babu was invited as Chief Guest to inaugurate the National workshop on "Software Engineering Practices for Distributed Computing with Hands-on Training" organized by the Department of Software Engineering at SRM University. She also handled a technical session on *"Challenges in Software Architecture for Big Data"*.

Dr.S.Sheerazuddin delivered a talk on the title *"TCS and Web Services"*. He spoke about the model checking based approach for web service composition and also gave a brief tutorial on a model checker NuSMV.

BEST TEACHER AWARD

Dr. R. Kanchana, Associate Professor and **Ms. B. Prabavathy**, Assistant professor received the *"Best Teacher Award*" on Teacher's Day function.

Ms. B. Prabavathy

Dr. R. Kanchana

MODEL CHECKING WORKSHOP

The workshop on **"Model Checking"** was organized by Department of Computer Science and Engineering during 18th -19th September 2015

Coordinators	**:**	Dr. S. Sheerazuddin, Mr. H. Shahul Hamead and Ms. K Madheswari
Speakers	**:**	Dr. B. Srivathsan and Dr. M. K. Srivas

On the first day, **Dr. B. Srivathsan**, Assistant Professor, CMI, gave hands-on training for NuSMV, an automata-based model checking tool for modeling and verification of reactive systems. In the first session, before lunch, he described the syntax of SMV language and with small examples and showed how to encode the model of the system being verified and how to run the NuSMV tool and analyse its output. Further, he showed how to express properties of the model as Box and Diamond formulas. In the second session, after lunch, he showed how to write SMV code for distributed communicating systems, wrapping up with the example of Dining Philosopher's problem.

On the second day, **Dr. M. K Srivas**, who is an Adjunct Professor at CMI, gave talks on Software Model Checking. He started with a discussion on applications of Formal Verification in different stages of Software life cycle. Then, he talked about various formal verification techniques with special focus on Bounded Model Checking (BMC). In the second session after lunch, he gave live demonstration of CBMC, a BMC based model checker for C programs, built by Oxford University.

Dr. B. Srivathsan, Assistant Professor, CMI

Workshop On Advanced Data Structures And Algorithms

Just as Eric S. Raymond said,*" A smart data structure and a dumb code works a lot better than the other way around"* and thus data structures play an important role in the efficiency of a computer system. So, to further impart deeper knowledge in the field of data structures and algorithms, a three-day workshop was organized by Dr. R S. Milton on 15th, 16th and 17th of October, 2015 in the PG Lab 1, CSE Department First Floor.

Day 1- Morning: Loop invariant and recursive function (Dr. Sourav Chakraborty)

Dr. Sourav Chakraborty started the session discussing the important properties of an algorithm. He explained loop invariant and recursive functions with coherent examples and also linked them with the properties of an algorithm.

Afternoon: NP-hard and complete problems (Dr. Sadagopan)

Dr. Sadagopan refreshed our memories on the basics of finding complexity in a program. Along with NP-hard and complete problems, he also covered vertex cover, independent set, clique, etc. as a part of it. He ended the lecture with a motivational and inspirational speech to seek more knowledge.

Day 2- Morning: Dynamic programming (Prof. Uma Maheshwari, Anna University)

Uma Maheshwari began her session with the very basics of a program. It was an interactive session where she explained a programs' journey from a high level language to a low level language brushing up the concepts of compilers, linkers and loaders. Then she headed into dynamic programming explaining concepts like 0/1 Knapsack problem, travelling salesman problem, network flow graphs, etc.

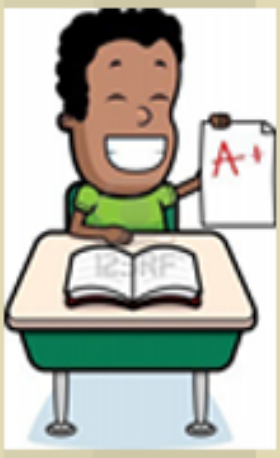
Afternoon: Graph Traversal (Mr. H. Shahul Hamead)

Mr. Shahul Hamead explained breadth first traversal and depth first traversal with great depth. He explained the representation of a graph in the form of adjacency matrix and adjacency list and thereby explaining their pros and cons.

Day 3- Morning & Afternoon: Concurrent Programming (Dr. S. P.Suresh)

Dr. S.P. Suresh, with his animated slides and live demos on concurrent programming using programming languages like java, elucidated many concepts and terminologies in concurrent programming like locks, threads, lock functions, deadlocks, starvation, lock status, etc. He also interpreted few algorithms like Banker's and Peterson's algorithms.

With that the workshop came to a close.



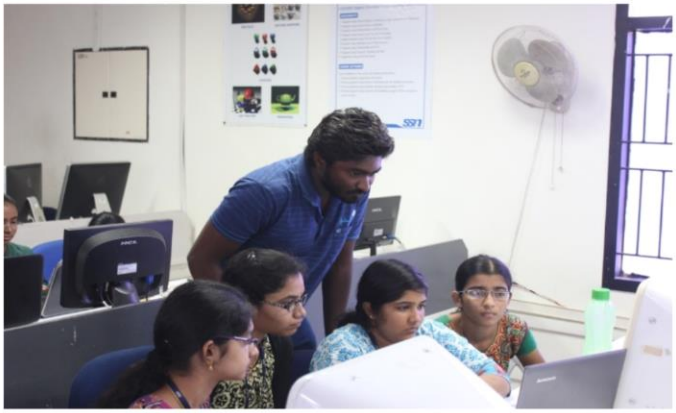
GUEST LECTURE ON TEACHING AND LEARNING

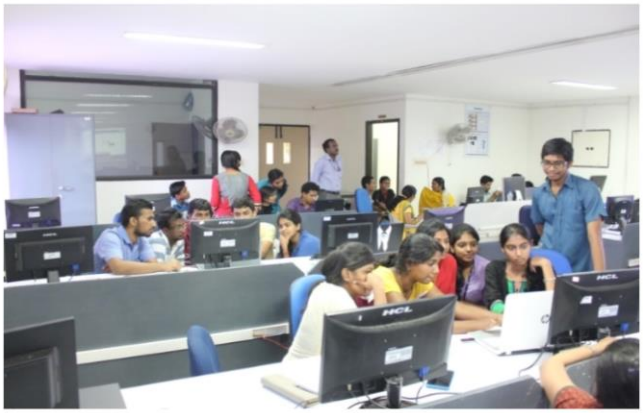
On 24th September, 2015, **Professor Ramanujam** from IMSC, Taramani delivered a guest lecture on the topic "Can a teacher really help in learning Theory of Computation?" The lecture took place in the CSE Seminar Hall, and students of 3rd year CSE were the audience. He started by asking the students what their idea of learning was, and received varied responses. He then proceeded to talk about automata, and made everyone participate in an interesting activity: the students would have to describe the automata he is thinking about, by asking him different queries on membership and visits. Everyone in the hall actively participated, which led him to his next point on how a 'minimally adequate teacher' can help one to correctly identify any automata by answering queries and providing counter examples. He then went on to provide an elaborate proof to show that this process will eventually terminate with the required DFA as output. On the whole, it was a fascinating lecture that gave a mathematical answer to a question none of us had thought about.

Dr. R. Ramanujam, Professor, Institute of Mathematical Sciences

Workshop on Embedded software development

The Workshop on Embedded software development was conducted in Computer Science Department of SSN College of Engineering during 31st July and 1st August 2015. It was coordinated by Ms.S.Rajalakshmi, Mr.K.R.Sarath Chandran, Ms.S.Angel Deborah and Ms.S.Lakshmi Priya.The key speakers were Mr. R. Seshan and Mr. D. Thiageshwaran who are SSN Alumni and part of the 2015 graduated batch. To briefly describe alumnus Thiagesh, he is a skilled programmer and a passionate developer of embedded systems, who was placed in ZOHO Corporation. He has done various interesting projects and got numerous prizes in the renowned robotics event, Kurukshetra. Alumnus Seshan is also skilled in the development of embedded systems, and was placed in Cognizant Technology Solutions. He and Thiagesh initiated a new event “CODE THE BOT” in the CSE symposium Paradigm.





The workshop started with a welcoming speech by CSE Department HOD Dr. Chitra Babu ma’am, who addressed the gathering and motivated the young minds attending the workshop, by recalling some of the Alumni’s achievements. The students were organized into teams and Arduino kits were given to each team. “Introduction to Arduino and implementing a blink program “ was the first task .Then programs were developed using buttons, buzzers, LEDs, LDRs .As the session proceeded and students started experimenting, mini projects were given and development proceeded in a competitive manner. Teams who finished first, second and third were noted and rewarded.

The second session was more advanced and extremely interesting. It involved working with ultrasonic sensors, IR sensors and implementing runway lights using sequence of LEDs and ultrasonic sensors. In between the session, videos of projects made by the speakers were also screened, which proved to be a great motivation.

The second day of the workshop began with higher expectations and eagerness. And we weren't disappointed. The second day surpassed our expectations in terms of the components used and the applications learnt. Programs were done using DC motors, joysticks and IMU (Accelerometer and Gyroscopic sensor). Students were assigned mini projects on implementing a robot using joystick and dc motor and controlling LEDs using IMU.

After lunch, it was time to install Processing – a software. Then port connections were made between Arduino and Processing to do visual –hardware projects. As the final project, everybody tried their hand at developing 'The Deer Hunt' game using ultrasonic sensors.

The final session was the prize distribution. Based on the cumulative points obtained in the mini projects, prizes were given to the winners. My team and I were delighted to receive the first prize, which was an Arduino board, much to our surprise. The students were very appreciative of the SSN alumni for their excellent workshop for kindling an interest in embedded systems in everyone who attended the workshop. Mr. Sarath Chandran presented the Vote of Thanks, as the workshop drew to a close.

Not only did my friends and I learn many new things, but we also gained insight into how to solve a piece of the puzzle in our final year project. This workshop turned out to be one of the best workshops that I have ever attended.

Report By,
DINESH RAJ G, IV A

Enjoyable Introduction to Programming through Drawing & Animation

A guest lecture on "Enjoyable introduction to Programming through Drawing and Animation" was given by **Dr. Jeyakesavan Veerasamy**, Director of Center for Computer Science Education & Outreach, Teaching Faculty, Department of Computer Science at the University of Texas, Dallas, USA, in our college on 12th October, 2015 in the Central Seminar Hall. Students pursuing B.E. (CSE), M.E. (CSE) and M.E. (SE) were the audience for this guest lecture.

The lecture was based on Khan Academy's online resources. The morning session was from 9.50 am to 12 noon. It started off with Dr. Veerasamy motivating students to understand and utilise imaginative and graphical approaches to programming. Later, he gave a few hands-on exercises on how to draw and animate objects to introduce the students to the wonderful world of programming.

The afternoon session was from 1pm to 3pm. The topic "Learning Computer Science concepts through real life analogies" was discussed. Dr. Veerasamy emphasised on the fact that learning through analogies is no doubt a great way to learn new concepts and reiterated that the domain of Computer Science was no exception. He made several correlations between Computer Science concepts and real world scenarios and enabled students to understand and appreciate the simplicity of this process.

KHAN ACADEMY

ART CORNER

Paradigm 2k15

PARADIGM 2K15

Paradigm 2k15 – A National Level Technical Symposium by Department of Computer Science and Engineering, SSN College of Engineering was conducted on September 1st, 2015. With total registrations of 3657, the event was a grand success. Shyam Sekhar S, Founder – Startup Xperts was the chief quest.

The most innovative part of the symposium was the paperless registration system. The entire registration process was made online and not a single sheet of paper was used. All the registration details were sent to the participant's mobile number via an SMS, the same could be used to register for any of the events.

Next thing was a 3D website. Or better call it a game. The website was created with the theme of the symposium – "Medieval Age" in mind. Involving concepts of virtual reality it takes you to whole new world giving a first-hand experience of the medieval age.

Android and Windows mobile apps were developed to help the students with necessary details and updates on the events. The apps are available on Google Play store and Windows store for free.

A massive iron throne structure inspired by the very popular TV series Game of Thrones was also built by our students. Very positive responses were given by the participants and everybody was busy taking "#SelfieWithThrone".

With two new additions to last year, a total of 16 events were conducted with an overall prize money of 70,000. Out of which 4 were online events, 10 technical events and 2 non-technical events.

Event List

Technical Events:

1. Paper Presentation
2. Web Zeal
3. Sequel
4. Code Wars
5. Triathlon
6. Open Programming
7. Code the Bot
8. UI designing
9. Technical Quiz
10. Code Hunt

Non-Technical Events:

1. Informals
2. Dumb C

Online Events:

1. Online Coding
2. Online Quiz
3. Online Treasure Hunt
4. Online Photography

The online events were conducted prior to the symposium. Online Treasure Hunt event had international participants from countries like Romania, USA. Online Coding Event was also a success; we had participants from IITs, NITs and other prestigious institutions all over India. None of the participants were able to solve all the problems. Special mention to the 2nd year students for the same. The other online events also had decent reviews.

The on day events also had good participation from various colleges around the state. An overall champion trophy was given to the college with best performance.

A big thanks to each and every individual soul who worked hard for months in making this event a great success.

Gallery


PARADIGM

ACE
Paradigm

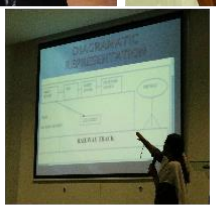

PARADIGM



PARADIGM






COMPUTER
INFORMATICS













COMPUTER SCIENCE & ENGINEERING


PARADIGM


STUDENT PLACEMENTS

DREAM AND **SUPER DREAM** OFFERS

SNo.	Company Name	Student Name
1	**Amazon**	**Siddharth G**
		Sudarshan R
2	Dell	**Devesh Rastogi**
		Sai Sravanthi A
3	Fidelity Investments	**Anirudh TS**
		Nandini V
		Vijayalakshimi MLS
4	FreshDesk	**Arvind M**
		Gaurav Pandey
		Samiya Nasim
5	GoFrugal	**Cicy Elsa Rodrigues**
		Mythili U
6	Infotrellis	**Junia Josephine D**
		Karthik Pasagada
		Mohana Priya S
7	Latentview	**S Jayashree**
		Vignesh N
8	Mu Sigma	**Sukanya R**
		Mohana Priya K
		Siddhaarth S

SNo.	Company Name	Student Name
9	Lister Technologies	**R Ashwin Kumar**
10	Polaris Intellect	**V Sriram**
11	**Real Image Media Tech**	**Satish Palaniappan**
12	Tata ELXSI	**Abirami.M**
		Lokkeshwaran J
		Mageshwaran V
		Manish Kumar Mandal B
		Nirmala R
		Varghese Paul CP
13	Temenos	**S.Aishwarya**
		Annapurna Sirisha D
14	ThoughtWorks	**Archana B**
		R Srinivas Bharathwaj
		S Vidhyalakshimi
15	Trimble Navigation	**Veddavi Balaji**
16	Verizon	**Aakanksha Prasad**
		Dinesh Raj.G
		Keerthana.K.
		Vinetha J
17	Zoho Corporation	**Abishek R**
		Ashwin Kumar.S

SNo.	Company Name	Student Name
17	Zoho Corporation	**R. Brinda Priyadharshini**
		Malini Christina Raj
		Mukundram M
		Narendra Pradeep U
		Naveen H
		Raghul Asokan
		Ruban B
		Vignesh S

Bulk offers

Many of our students received offers from more than one company. They were asked to finalize on one company of their choice. The final number of selects is as follows:

SNo	Company Name	No. of students placed
1.	Accenture	**7**
2.	Cognizant	**36**
3.	Infosys	**5**
4.	Tata Consultancy Services	**10**
5.	Wipro	**2**

STUDENT PROJECTS APPROVED FOR INTERNAL FUNDING

STUDENTS	FACULTY	PROJECT
CSE-B.E. Students		
S. SIDDHAARTH SAMIYA NASIM H. NAVEEN (IV Year) SAI VEERYA MAHADEVAN K. HARIKRISHNA (III Year)	Dr. R KANCHANA Dr. T. T. MIRNALINEE Dr. V S FELIX ENIGO	PROTOTYPE FOR IoT BASED SMART SEWAGE SYSTEM
K. HANS KEERTHIKA RAJVEL K. GOKUL M.C. DINESH (III Year)	Dr. B. BHARATHI Ms. K. VALLI DEVI Ms. S. ANGEL DEBORAH	ACOUSTIC DIALECT DECODER (ADD)- AN AUTOMATED AUDIO LANGUAGE TRANSLATION DEVICE
D.S. SHASHAANK S. PRIYANKA V. SRIRAM (IV Year)	Dr. B. BHARATHI	SPEECH RECOGNITION BASED CHESS SYSTEM FOR THE VISUALLY CHALLENGED
T.S. ANIRUDH S. ASHWIN KUMAR S. CHAARAN (IV Year)	Ms. S. ANGEL DEBORAH	DIGITAL AGRICULTURE USING DECISION TREE ALGORITHM
M. ARVIND S. GAYAPRASHAD V. MAGESHWARAN (IV Year)	Ms. S. ANGEL DEBORAH	DIGITAL POLLING BOOTH WITH ENHANCED SECURITY
M.R. SUDHA SUDAR ABISHECK K. SRIRAGHAV	Dr. SHOMONA GRACIA JACOB Ms. S. MANISHA	GESTURE RECOGNITION TO INTERPRET AMERICAN SIGN LANGUAGE AND ENABLE LEARNING OF ASL IN A VIRTUAL REALITY ENVIRONMENT
V. VIJAY U. SIVASHANMUGAM R. RITHESH ROHAN SAKETH	Dr. SHOMONA GRACIA JACOB	OBSTACLE DETECTING SHOE FOR THE VISUALLY IMPAIRED
M. ASRITHA B. KRITHIKA M. INDU (III Year)	Mrs. S. ANGEL DEBORAH Mr. K.R. SARATH CHANDRAN	POWER CONSUMPTION MONITORING AND TEMPERATURE REGULATING SYSTEM FOR POWER SAVING

STUDENTS	FACULTY	]PROJECT
G. DINESHRAJ R. DIVYA BRINDHA R. BRINDHA PRIYADHARSHINI (IV Year)	Ms. S. RAJALAKSHMI	WHEAT GRANDING SYSTEM USING IMAGE PROCESSING AND NEURAL NETWORKS
N. SATCHIT SUBRAMANIAN A. RAJAN (III Year)	Mr. K. R. SARATH CHANDRAN Ms. S. ANGEL DEBORAH Ms. K. VALLIDEVI	VIRTUAL REALITY CAR SIMULATOR WITH GESTURE AND TOUCH INPUT
S. VIGNESH C. V. VISHAL RAMASWAMY C.P. VARGHESE PAUL (IV Year)	MR. K.R. SARARTH CHANDRAN	AN EMBEDDED SYSTEM FOR RECONITION OF ENGLISH SIGN LANGUAGE TO AID DEAF-MUTE PEOPLE
RISHAB VENKATARAMAN VARSHA MURALIDHARAN (III Year-ECE) KIRAN SUDHIR SWAATHIKKA KARTHIKEYAN (IV Year-CSE) JERRY GEORGE THOMAS (IV Year ECE)	Dr. R. KANCHANA Dr. T. MIRNALINEE Dr. V. S. FELIX ENIGO	DESIGN IMPLEMENTATION OF DATA LOGGERS AND ANALYSERS
NARENDRA PRADEEP SASI KUMAR VAIBHAV VENKAT SWAMY (IV Year)	Mrs. S. KAVITHA Dr. B. BHARATHI	BI-MODAL BIOMETRIC SYSTEM FOR PERSON AUTHENTICATION USING SOFT COMPUTING TECHNIQUES
K. MOHANA PRIYA (IV Year)	Mrs. S. KAVITHA	BRAIN TUMOR TYPE AND GRADE DISCRIMINATION OF MRI USING GENETIC ALGORITHM AND FUZZY-RULE BASED APPROACH
CSE - M.E. Students		
C. SIVARANJANI (II Year)	Dr. B. BHARATHI	CONTINUOUS SPEECH RECOGNITION FOR TAMIL LANGUAGE

StudentActivites

I worked as a software development intern at the TCS Siruseri office in the S2S (Sensor 2 Software labs) after being selected from an aptitude test and a technical interview there. I worked from 1st june till 15th July. I was assigned the responsibility of web and mobile app developments for the home and client projects of TCS. My first project was “Track” mobile app which makes use of all the mobile sensors and pushes data to the TCUP (Tata Connected Universe Platform) new cloud database by TCS. I happened to be one of the first to work on the TCUP platform.

Chaaran.S - IV year

My second project was real time energy management and analysis for home and office setups. Over all it was a fun working experience. Not to forget the wide range of hotels inside the Siruseri campus, spanning bigger than the city malls, were one of the reasons I was particularly regular to office. The internship period was just enough to try out all the hotels there. My higher officials were very supportive and I got to know the crux of a typical office working environment and wore formal attire daily after a long time.

Ashwin Kumar, Chaaran S
IV Year

Ashwin Kumar and I attended a mobile app development contest at Anna University called “Mobathon”. We had to pitch an innovative idea first and had to clear a few technical tests in the prelims round to a panel of judges from Anna University and a representative from Daimler Financial Service, India. We got through the prelims from over 400 registered teams all over Tamil Nadu and we made it to the final 24hr app development round competing against 20 shortlisted teams. We had to stay in the Anna university campus for the whole time and code for the next 24 hours.

It really was a fun filled experience with enthusiastic coders working round the clock, keeping up the team spirit. Finally, the time came when the results were announced and we bagged the 2nd runner up and Rs.20,000 cash prize from Mr. Fried Wick, Managing Director, Daimler India which made all the hard work and the determination we had throughout the competition worth-while. Ashwin Kumar's name was mentioned in the following article that was published in the Hindu newspaper.

http://www.thehindu.com/news/national/tamil-nadu/meet-the-most-appening-students/article7717505.ece

StudentActivites

Theatre

1. **Varun**, **Vignesh Veera**, **Avanthikaa** and **Ashwini** of II year acted in the play *"Wisdom of Solomon"* directed by **Ranjini** of III year and won second place at NIT Trichy's cultural event Festember.
2. **Ranjini** of III year acted in "Rumors" as a part of Crea Shakthi's Campus Theatre Initiative.

Symposiums Attended

Students participated in various events in the CSE symposium of *St. Josephs College of Engineering*.

1. **Ashwin Alagappan** and **Lokkeshwaran Jaya** of IV year won 1st place in *Enigma* and 3rd place in *Technical Quiz*.
2. **Akshaya Natarajan** and **Arjith N** of II year won 2nd place in *Ping a Pic* and 3rd place in *Enigma*.
3. **Arjith N** of II year won 2nd place in *Ministry of Morons.*

Intra-College Culturals

1. **Varshini** of III year won 2nd place in *Solo Singing*.

Did You Know?

Bill Gates' house was designed on a **Macintosh**.

ART CORNER


PARADIGM


Winter Is Coming
When you play a game of thrones you win or you die

Real Image Media Technologies

Interview Experience

Real Image Media Technologies is a company which makes a number of products related to the movie industry. Real Image came to our campus for placements on 6th August. I was offered a 6 months internship there as a developer.

The process began with an ice breaker session which was a quiz, followed by Coffee with RI, where students were allowed to ask questions about the company. They explained the technology stacks they use and the technologies new recruits will be working on – which included Ruby on Rails, Django, Node.js, Go, android and iOS native apps and C/C++. After this, the actual selection process began. It consisted of 5 rounds.

The first round was an online test. It primarily consisted of technical multiple choice questions. The level of difficulty was easy.

The next round was the coding round, for which 33 people were short listed. They gave a problem and asked the candidates to come up with an implementation. Net access was allowed, with the choice of any language .The time allotted was 3 hours. This question is an open question posted on Real Image's Github page: http://realimage.github.io/challenges/ The problem was to come up with a text search system in files, using indexing. It was thought-provoking with many approaches possible. They first wanted a working system after which they checked the approach used. This was followed by the interviews. The first round was a technical interview. It involved a discussion about projects mentioned in my resume from a technical perspective. They asked about my favorite subject. My reply was data structures. They asked a series of questions about data structures and different problems and how I had made use of various data structures in my projects. The take away from the round was never to mention anything in your resume that you aren't sure about.

The next interview was with the Chief Technical Officer. It involved a discussion about my approach in solving the coding round question, and how I would approach the question if there were no time constraints involved. Then he asked about why I would like to join the company and my career plans. An important thing to take into account is to ensure how you project yourself meets their expectations. They wanted people who are self-learners and passionate about technologies and problems.

The last round was a HR interview. The interview was brief. It involved finding out more about my background and what kind of a person I am. The standard "Tell me about yourself" question was asked. With that the process was over.

-Naveen, 4th Year

ZOHO INTERVIEW EXPERIENCE

Zoho Corporation came to our campus for placements on 18th August 2015. The process consisted of a written first round, a short coding and long coding rounds followed by the interviews. The first written round consisted of both aptitude and coding questions. The aptitude questions were pretty standard, involving concepts related to AP, data interpretation and logical reasoning. The coding questions were all predict the output type questions. They required very sound knowledge of pointers. It was all in C. There was a generous assortment of multiple nested loop and pointer operations within them, string manipulations with pointers and function pointers in these questions. The round lasted for 3 hours.

The next round was the short coding round. There were 5 small questions to be done in 3 hours. Two of these were fairly easy questions, while the others required a bit of thinking. The team allowed us to explain our approach and logic used before checking the outputs. We were allowed to use any language of our choice.

The next round was the long coding. This consisted of a single round with a single question for a duration of 3 hours. We had to implement a railway reservation system for a single train with two compartments. It was divided into a set of basic and additional requirements. We could use any language of our choice for this as well. They required us to come up with a proper design of the system, including the data structures and classes to be used. We had to communicate and justify our decisions to the team and begin coding after they give the go ahead.

This was followed by the interviews. The team to which I had been assigned wanted to hold a round of technical interviews as well. I was asked some basic aptitude questions, some of which were from the first round. I did my best at answering those. I was asked to come up with the database design for the question in the long coding round. After a bit of brain storming, I came up with a schema that was to their satisfaction. Then I had two HR rounds. The first round had the standard "Tell me about yourself" question. Then I was asked about my projects, what I had done apart from academics and also the standard "Why do you want to join us" question. The final HR round was with the head of HR. I was asked about my previous interview experiences and why I would join Zoho considering I had an internship offer already from Real Image. Finally, I was asked if I had any questions for them.

The next day the results were announced. I was offered a job at Zoho with a CTC of 6,60,000.

Naveen

4th Year

ACM STUDENT CHAPTER

This is the fourth consecutive year of **SSN ACM Student Chapter**. With the events that we have been conducting so far and are planning to conduct in the near future, we are living by our motto of evolving computing as a science and a profession and striving hard towards enlightening students about the latest technological trends. All this would have never been possible without our HOD **Dr. Chitra Babu**, Faculty Sponsor **Mr. Sujaudeen N**, our active chapter members and students.

One of the events that we have been consecutively conducting every academic year is the "C++ Programming Workshop". We do this to enable the lateral entry students of 2nd Year to undergo a seamless transition from their Diploma curriculum into their current one. This year we extended this event to a 3 day workshop, 2 hours per day, from 26th to 28th August. We had about 26 students trained under this event. Each day a student volunteer from 3rd or 4th year came up to share their knowledge and threw some light on the basics of C++ Language.

The first day, we had a talk about the "Need for the Object Oriented Programming" and "C++ basics" by **Raghul Asokan** of IV year. The next day **Rajeshwari Sujana** from III year dealt with "File operations and Importance of Exception handling" in C++ and the final day was taken over by **Vandhana** of III year who spoke about "Runtime polymorphism" followed by a Hands on session with some basic programming assignments in C++. The participants of the event took up these assignments sincerely and came out with flying colours.

Raghul Asokan handling the C++ Workshop

The **"Software Freedom Day",** is celebrated on the third Saturday of September every year. We planned to commemorate this day by organizing a "Hands-on workshop on Python and Machine Learning". We decided on this topic as we wanted our students to have a head start in some of the technologies and concepts that are currently trending in the industry. This workshop was conducted by **Satish Palaniappan** and **Siddharth G**, final year students UG-CSE. It was held on 18th and 19th of September, from 9.30AM to 3.30PM and nearly 40 students attended this workshop.

The first day was entirely concentrated on Python, and was split into 5 sessions handled by **Satish Palaniappan**. The first session was intended to make the students understand what kind of language Python is and on setting up a working environment to code in Python. In the next session, the students were exposed to basic python constructs. This was followed by a hands-on session to build a mini word frequency indexer for text files. The third session was concentrated on Python specific constructs and features. Here, the students were exposed to how powerful and expressive Python is as a language. This was followed by a hands-on session where students were asked to build a bi-gram frequency map from IMDB movie reviews dataset. Later after lunch the students were taught "how to build a web scraper with python" and about how to access the "Google Image API from python". The day was concluded with a hands-on session in building a "Parser for Social Network Text Data". All of the sessions had a tinge of ML into it for preparing the students towards the next day.

The next day was focused on Machine Learning and was split into 4 sessions handled **by Siddharth G**. The first session was mainly intended to give an overall introduction to Machine Learning where the students were enlightened on how ML could be used to solve real life problems and why has it been the buzz of the industry in recent years. The following two sessions were concentrated on "Linear Regression" and "K-Means Clustering" where the students were taught about the math behind these algorithms and explained how ML and mathematics were closely coupled. This also included hands-on sessions handled by **Satish Palaniappan** on K-Means using Word2Vec word vectors. After lunch the students were taught about Logistic Regression that included hands-on sessions in python on how to use scikit-learn for ML. Finally, the students were involved into a task where they were asked to perform edge detection, given any image and were also taught about a way to do it more efficiently.

All of these events were a grand success and we have bigger plans for the upcoming semester and are planning to organize more events for the benefit of students and to encourage the spirit of computing.

ACM Student Chapter Team

Real Image Media Technologies, that brought out the REAL me!

It was 6th August 2015, the day when Real Image Media Technologies had come for Campus Placement drive to SSN, I knew this company's name just a couple of weeks back and was not even sure of what kind of company they were and what they did. They were coming to SSN for the first time now, and from the salary package they offered, it was quite sure that they were about to offer a dream job.

Initially there was a Quiz, an ice breaking session where they split up the entire group into 3 and they had a Tech Logo quiz and Movie names quiz. They didn't grade any student based on their answers in this round, it was just to tell that how all the technologies in the Tech logo quiz were related and used in making the movies in the Movie names quiz. At last they had something called Coffee with RI, it was a Q&A session with the students and RI professionals. By the end of all this, I should say that RI had succeeded in taking me from zero knowledge about them to getting a clear idea of what they do and how they do it in just few hours. Towards the end of the PPT they were briefing everyone out regarding the interview process and the compensation details, that is when they made a point that even if a student doesn't perform well at any stage and get out of the process they can always approach the RI people in person with their projects and code and prove them why they are more worthy than the rest of the gang and why they should be a part of RI than anybody else. Then all 133 of us had to take up the first round – the online test that tested our technical aptitude in areas like OS, Networks, Data Structures, Algorithms, Basic concepts in OOPs and C, It had totally 40 questions and 60 minutes time. I felt I did the online test fairly well and was expecting my name to be shortlisted for the next round! Then after lunch they declared the results, according to which they had shortlisted 33 from 133 people for the next round and fortunately I was one among the 33, I am not sure whether it was luck or it was my hard work that had paid off finally, but this gave me some confidence that I am worth something.

The next round was a Programming Challenge that was for 4 hours, now again the Amazon fear started haunting me that, what if I don't have access to programming languages other than C, C++ or Java as it did happened in Amazon, like my favourite language Python, in which I have been coding for 2 years now and nearly every single day of it. So, the first thing I did was to clarify with the RI people that, whether all languages allowed and can we use Python, the moment they said any language any platform is fine with them, I ran off to the system assigned to me and started installing Python in it and setting up the environment, when I was installing Python, I felt like wanting to literally ace that round and prove myself to be worthy of something too. The questions were announced and we were given the URL where it was hosted, they told that, it was an open challenge for nearly 10 years now (**URL -** **http://realimage.github.io/challenges/** - Just in case someone wants to try out the questions). By the time I had setup my system with Python, everyone had already started coding, the question basically involved 2 sections and 4 additional functionalities to be implemented, you can refer to the link I just mentioned to get an idea of what kind of question it was.

Then I started to code, in nearly just an hour and half I was done with the two basic sections of indexing and searching the files as mentioned and was also done with two additional functionalities. I called one of the RI people for verifying my code, one of them came at first, and he was checking whether my code worked as specified and he was not interested in my logic. Later he redirected me to another person, he was kind of their Python expert, he came up to me and I started explaining him on how the logic worked in my code and why my code was more efficient than others.

I had used certain pythonic constructs that only anyone who has been coding for a long time or is an expert in Python would know, he was quite impressed with all that I had done. Then he allowed me to complete the rest of the functionalities, It took me another 45 minutes to an hour to get that over and then I called him back to verify my entire code, this time I was also questioned by Sudhir Jonathan, one of our alumni who currently worked in RI. Soon I saw that, literally, everyone from RI who had come that day had gathered around me including the CTO of RI and all of them started firing questions at me, it was quite challenging to handle that, but it all went out well. By then I was damn sure that, I had impressed all of them and was certain of getting at least an Intern with RI. They asked me to make some performance tweaks to make my current code work more efficiently than it did and also gave me some questions to work offline and get back to them with the answer in the rounds that followed. By the end I noticed that I was the only person to have implemented all 6 sections plus performance tweaks while others had done only 2 basic sections.

Then the results were announced and we had 3 rounds more, actually for me it was just one! They made me bypass the two technical interviews that my other friends were attending. I should thank Python that made all this possible, it is a very expressive language and it is really easy to write efficient code and by far it is the fastest prototyping tool available out there, just because I did my coding challenge impressively I was allowed to skip the two technical interviews. I was waiting jobless from 4 PM till 6:40PM while all of my friends were taking up the tech interviews, during this time I was interacting with one of the HR people from RI and got to know about their companies work culture and stuff. At last I was called for my HR interview, I had two people in my panel, one was the CTO and the other was a HR person. This round had questions like, “Why didn't you get placed in Amazon yesterday?”, “What was the most disappointing moment in your life, how did you handle it and what did you learn out of it?”, “Where do you see yourselves in 5 years from now?”, “What was the latest movie that you saw and what did you like in it?”, “Why are you the only Python developer in your batch and what made you learn Python?”, A lots of questions about my projects (I had nearly 6-7 of them), More questions from my resume, “What was the most toughest and complex problem that you have solved and what did you learn out of it?”, ”How do you prove yourself as a team player?”, ”What do you do when you get angry and do you get angry often?”, “How do you handle extremely stressful situations?”, “What would you have become if not for a Computer Science Engineer and Why?”, “Do you have any questions for us?”, etc. They even asked me about the offline questions and their solutions, then, I started asking them some questions regarding my work and stuff and unknowingly became more possessive of their products MovieBuff and JusTickets and started giving some suggestions on how to improve it, this was one of the main reasons as of why they were impressed with me.

By the end of this interview, I was quite sure that the job was mine, mainly because the CTO seemed quite impressed with me and my interests and projects in Machine Learning had set myself apart from others competing with me.

Then finally it was time for the results to be announced, two people from the HR team took me into a room to reveal my results, they were damn happy when they were talking to me and as they briefed me about the stuff I need to know before joining RI, all that time I was waiting for them to put it in words that I got the job, and finally they told “We are really privileged and happy to have you on board Real Image as a full time employee, and are really looking forward to seeing you at RI!”. This was THE moment I have been waiting for all day, and even all my life!

-Satish Palaniappan, 4th Year.

Did You Know?

The first **Computer Mouse** was made of *wood*, in 1964.

Twelfth time lucky!

Juggling between placements, lectures, and lab sessions, records, writing countless retests, project reviews, and unit tests and nursing my Canada hangover at times and not to forget the jet lag, must say 15th August - 15th September 2015 has been the toughest and the busiest phase of my life so far!

True to the words of a popular saying, everything happens for a reason!

Lister Technologies was the fifth company I attended.

Lister Technologies

The first round was an online test. 60 questions were to be answered in 45 minutes. And there were sectional cutoffs too. Time management was the key here. Out of the 500 students who attended the online test, around 25 were selected for the second round.

The second round was the HR interview. The interviewer was very warm and friendly. We spoke about my hobbies, importance of research, gender equality issues among others. We also spoke about my MITACS Internship and I was asked to explain the work-life balance in Canada and India.

Following the HR interview was a Technical Interview. The interview went on for about 90 minutes where I was asked questions on literally everything starting from Java, MySQL, Networks, and Microprocessors to Ruby on Rails and R. I was asked to write programs for various scenarios, debug codes and there were logical puzzles too thrown in at times. The second part was more of a stress interview where discussions became more intense. I was asked to sell a model to a customer, solve case studies, and come up with solutions for some real world problems and other questions that tested both my marketing and managerial skills. But I must say I thoroughly enjoyed the interview process.

Finally five of us were selected of which two were given full time offers and three of us were offered internships.

Verizon

The first round was an online test. But unlike most other tests, Verizon's test was a bit different. There were four sections - Verbal Ability, Aptitude, Logical Ability and Technical Aptitude and each section had different time limits and cut offs. Out of the 300 students who attended the online test, 12 were selected for the second round.

The second round comprised of a Group Discussion and eight of us got through it.

The Group Discussion was followed by a Technical Interview. I was the first person to be called for the technical interview. The interviewer was very friendly. I was asked questions on a myriad of topics ranging from bare basics to advanced concepts in Java, DBMS, Networks and R. There were few offbeat questions like questions based on Google Maps, how Google collects data from its Google Maps etc. but nevertheless I enjoyed answering them!

The technical interview was followed by the HR interview.

The final results were announced the next day. Six of us were selected to be a part of Verizon.

- *Vinetha Jagadeesan*
CSE – B, IVth year

ART CORNER

Gowtham

IInd year

Varshitha

IIIrd year

ALUMNI ACTIVITIES

Narendan Thangarajan, an alumnus of the 2009 – 2013 batch, recently presented a paper in the International Conference on Wireless Health. The conference was held from 14th to 16th of October, 2015 at National Institutes of Health, Bethesda in Maryland, USA. The topic of his paper was *"Analysing Social Media to Characterize Local HIV At-risk Populations"* and it proposes a new method for identifying HIV at-risk populations using publicly available data from Twitter as an indicator of HIV risk. We take this opportunity to congratulate Narendran on his success and wish him all the best in his future endeavours.

Did You Know?

Wikipedia is derived from the Hawaiian word *wiki* meaning *'quick'* and encyclopaedia.

GETTING INTO SAP LABS

Many students studying Computer science aspire to join SAP labs India private ltd. When I got a job there as a product developer, it was a dream come true. The Computer Science and Engineering department at SSN College of Engineering, played a vital role in helping me achieve this dream.
I was selected based on a thorough set of tests and interviews, structured as below:

ROUND 1: Online Test

It comprised of 106 questions which I needed to answer in 90 minutes. The questions were based on a variety of topics which were categorized into the following sections:

Section A: Psychometric aptitude
Section B: Design aptitude
Section C: Testing aptitude
Section D: Analytical aptitude
Section E: One debugging question
Section F: Coding level 1
Section G: Coding level 2

ROUND 2: Technical F2F

This section comprises of Design related questions such as:
Question 1: Given a scenario design the following:

- class diagram
- use case diagram
- activity diagram

Question 2: Design pattern related question such as:

- factory pattern
- MVC pattern
- Behavioral pattern

Question 3: Given a scenario design the following:

- schema diagram
- How many tables are needed?
- How many attributes does each table require?
- What is the data type of each attribute?
- When would one use a foreign key?
- Normalize the tables using 1NF, 2NF, 3NF, BCNF.

Question 4: One coding question related to trees

ROUND 3: Advanced Technical F2F

We were expected to implement our theoretical design in this round. I used the following technologies to do the same.

Model: Oracle, Bean
View: HTML, CSS, JAVASCRIPT
Controller: Servlets, JSP, Enterprise java bean.

The UI and backend was implemented by maintaining sessions between pages.

ROUND 4: Managerial

This round comprised of two coding questions on trees and linked lists.

ROUND 5: HR

This was the final round where the finer details like salary structure and Date of joining were discussed.

In all the above rounds Object oriented analysis and design, core java, J2EE, data structures played a great role.
Because the department helped me have a strong foundation in these domains, I was able to ace the interview.

Mohamedashique A
BE 2011-2015 batch

WALKING DOWN THE PATH OF MS

I knew there will be a time when I understand the need and walk down the path of MS. But after college, I was not sure what interested me in academics. So, I went on to work for my dream software company with 4 years of unparalleled SSN CS experience.

After a year of working with some of the best brains I learnt a lot about professional life in an industry. 1.5 years and 3 projects later it happened finally. I found something I wanted to learn more and get deep into. *Data mining and machine learning*. Working with data to bring out sensible information piqued my interest more. And I felt it would be better to academically get into it than trying to squeeze in time and read everything that comes my way. That way I will have better mentors and know where to focus my learning efforts.

Though I was not too keen on doing an MS I was always fascinated by the quality of education and research we heard about the colleges in USA. And the possibility of working with some of the entrepreneurial minds drove me towards an MS in US. Silicon Valley, start-ups, opportunities bolted my decision to pursue my higher studies in US. I researched to find colleges with research focused in my area of interest and applied to few. I finally got into Arizona State University pursuing my interest in working on an "intelligent tutoring system."

With the sun melting everything beneath, Arizona gave a really "warm" welcome. Fortunately, I got some of the best subjects I wanted in my first semester - *Multimedia and Web Databases, Diffusion in Social Networks and Introduction to Artificial Intelligence.* The teaching methodology was very different from what we had been put through from our formative years till the end of 4 years of engineering. Students here are expected to do their research to learn outside of class. Exams were not the primary decision factors in gauging the student's understanding of any subject. Assignments were given on a regular basis to test and expand the knowledge of what was taught in the class. Every assignment, quiz and spot tests carried their own weightage towards the final grade. And preparing for these helped us understand more and be ready for the final exam without having to read everything up a day before exam. The questions in exams were not testing the *"whats"* of the concepts but the *"hows"* of it. This in itself demanded deeper understanding of the concepts without which one cannot decipher even the questions. This whole experience somehow made me feel more confident about my knowledge and felt like a much better method of education. The research oriented minds of professors drove the courses in a more interesting manner.

But with all that flow towards academics we also have to take care of ourselves. Cooking, groceries shopping, washing vessels… and soon you realize that your mom was doing all these by herself while you cannot even complete with the help of roommates. On the other hand, this makes us a complete person capable of handling ourselves all alone without much help from outside. As I completed the fall semester I got used to this schedule and got better at managing time. The only thing that makes this worthwhile is working under the best of professors and the methodology of teaching.

With the self-made life and money aside, the demand from courses are higher. And enjoyable. For instance in my second semester I had 3 courses with each having 50% of the marks coming from projects. The projects helped me understand the concepts taught in the class with a first-hand experience by implementing them. In *Statistical Machine Learning* course I worked with a team in creating a product-feature rating prediction system which involved *natural language processing* (NLP), *machine learning* and *recommendation engine development*. Applying the knowledge from class in this project helped deeper understanding of the concepts taught. This is how it should be - teach and implement. I would love to see this more streamlined approach be brought into our engineering education in India.

The one year stay here has been a major change in my life and way I saw it. My approach towards myself has changed drastically with this separation from the people I know. I am more self-sufficient and confident as a human being. With this experience I am so glad that I waited and took the right decision for myself. This teaching atmosphere is a must-have experience for every aspiring student in my opinion. And the excitement of getting into a Silicon Valley start-up in the near future acts as a driving force in itself to achieve more. For every student still wavering about whether or not to do an MS I have two things to say:

1. Ask yourself what you want to do? MS (More Specific) is not BE (Be Everything). Find your interest before you find a GRE slot.
2. If you know what you are going to do in MS then do not ever hesitate to fly over to USA.

This will be the best decision you make in your life - not for the money you will get but for the knowledge you will cherish. For the human you will be. All the best.

P.S. I should agree (and cannot stop myself from mentioning this) that being in a place like SSN showed me greater opportunities and provided me with some of the best faculties to work with that surely helped me think large and make it big both in the industry and here. Thanks to all my loveable staffs.

Sesha Kumar.P.G.
SSN, CSE 2008-2012

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