

## RAMESH NADAVATI

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**Objective:** *Looking to secure a challenging new role where skills, knowledge and previous experience can be applied.*

**Education: University of Michigan; Flint**

*MS, Computer Science and Information Systems, June-2016. BS, Electrical & Electronics Eng. Minor in Math, May-2014(Top 8% class)*

**Jawaharlal Nehru Technological University-Anantapur**

**Experience: University of Michigan | Flint, MI | Internship.**

**June- Oct 2015**

Worked as a desktop technician, I was helping students and faculty by providing services like installing, updating, troubleshooting all kinds of softwares and Operating Systems (OS). Answering customer phone calls and resolving computer problems.

**Microsoft Research | Chennai, India | Internship.**

**Summer 2014**

Attended Summer School on topics such as statistical physics methods in coding/ Information theory. Discussed and learned [coding theory](#), graphical models and message-passing iterative algorithms, Gibbs partition function, free energy function, [Mean field approximation](#), Bethe approximation. [Boltzmann distribution](#), Spin glass models, Phase diagrams, Curie wise models, Random energy models and Mesoscopic perspective on network dynamics. Learned and performed stochastic geometry for wireless network. Achieved 2<sup>nd</sup> rank for performing the task successfully.

**Quiet Growth | Bangalore, India | Full Stack Web Developer.**

**2014-2015**

Based on client's guidelines worked on designing, coding and modifying websites, from layout to function. Strive to create visually appealing sites that feature user friendly design and clear navigation. Deep expertise and hands on experience with web applications and programming languages such as HTML, CSS, Asp.Net, Ado.Net, PHP, Bootstrap, JavaScript, XML and API's. Hands on web design experience with UI, REST, and SOAP. sample web links- [Website1](#), [Website2](#), [Website3](#)

**Sector Soft | Hyderabad, India | Software Engineer | Internship**

**2013-2014**

Played energetic role in analyzing information, applying coding skills, software design and debugging, software testing and documentation, problem solving, teamwork, software development fundamental and process, demonstrating solutions by developing documentations, coding, flowcharts, layouts and diagrams. Hands on experience with C, C++, Python, Java. Excellent problem solving and debugging skills.

**S.V. University College of Engineering | AP, India | Database Engineer**

**Fall 2012**

Worked on Hand gestures in touch based system. I have done research in Neural networks and have presented many statistical approaches to tackle this problem and achieved 83% accuracy. As a database engineer I used to update student details in database and creating portfolios to the faculty and staff members in the university. Integrating new products and software packages in to the system. Keeping database available, secure and stable. Constantly checking the data from the database to ensure it is not corrupted.

**RT Power Plant | AP, India | Internship | Jr. System administrator and Substation Control Engineer.**

**May-Aug (2012)**

I was operated automated or computerized control systems, stationary engines and auxiliary equipment such as reactors, boilers, turbines, generators, pumps and other equipment to generate electrical power. Start up and shut down plant equipment, controlling switching operations, regulating water levels and communicating with other operators to regulate and co-ordinate transmission loads, frequency and line voltages. Monitoring plant equipment, computer terminal, switches, valves, gauges, meters etc... Analyzing and recording instrument reading, equipment malfunctions and maintaining accurate technical reports. Administrating network and systems in the computer lab.

**Shree College | Andhra Pradesh, India | Employee | Lab Administrator (Linux/Unix, Network, System)**

**2011- 2013**

My responsibilities were setting up the network, maintaining and expanding the network, user administration, verifying the peripherals, quick repairing hardware failures, monitor system performance, created backup and recovery policy and monitored network communications etc... Installing and Configuring Configuration management tools like Zenoss and Nagios etc.

**Awards:** 1. Received a badge of honor from University of Michigan for scoring above 3.5 GPA in my Master's degree.

2. Received a gold medal in 'robotics research' held by research committee 2014 at Shree college.

2. Achieved 2<sup>nd</sup> rank in Ramanujan Mathematics and competitive test among all the Departmental students in the university.

3. Recipient of the Research Scholarship under SVU Funding's, in 2012.

4. Secured 2nd position in the State Level Regional Mathematics Test. Recognized and Certified as among 0.1% students, in the Math's, Physics, Chemistry in 2006.

5. Received an award in "two days Robotic Challenge" for the successful completion of coding for "street follower robot using hand controllers".

6. Received multiple awards for the best dance performances.
7. Received best outgoing student award for excellence in academics as well as in cultural activities.
8. Active member of Big Data group at University of Michigan Flint where we discuss and present current advancement in the field of Hadoop, Map Reduce and Big Data Mining.

**Projects:** **SAE Baja Team:** University of Michigan; Flint. <http://github.com/nadavatiramesh> --2016  
Design and Developed the vehicle controlled systems in the Baja car which is going to participate in multiple competitions in the years 2016-17. Lead a team of 4 people.

**Table Functions in Oracle and their performances | Guide: Dr. Mani** **Winter 2015**  
Examined the performance of table functions (TF) in oracle. Gave presentation on advantage of pipelined and parallel methods in oracle. I wrote programming code using SQL, MYSQL, and PLSQL to test TF in oracle. Data processing using “pipelined and parallel TF” was faster than data processing with “un pipelined and un parallel TF”, achieved 90% accuracy and faster performance.

**Creating connection between Java and Database |Guide: Dr. Mani** **Winter 2016**  
I wrote programming code in Java and I have created tables in DBMS. Also, I wrote programming code to set server o/p and to create connection to my database account. I executed the task and successfully achieved as much as 86% of accuracy. The outputs were out in Eclipse software.

**Machine learning concepts in recognition of Face and Iris |Research |Guide: Dr. M. Farmer** **Fall 2015**  
Worked on machine learning concepts related to Biometric recognition, for this project reviewed and discussed more than 30 articles and understood some important concepts. The final report was submitted, including four supervised Machine Learning algorithms like ‘[support vector machine](#)’, ‘[Fuzzy expert system](#)’, ‘[Gaussian mixture model](#)’, ‘[Artificial Neural Network](#)’ in [biometrics](#) research. Finally examined the dataset and have obtained the accuracy as much as 73%.

**Texture Synthesis by Non-Parametric Sampling** **Spring 2015**  
Modelled texture as a Markov Random Field where the texture synthesis process grows a new image outward from an initial point, one pixel at a mean time. Achieved the performance accuracy of 83%.

**Your Face Tells Everything: An Analysis of Human Emotions with internet and without internet** **Winter 2016**  
From this study, I tried to analysis and provide the proof of usage of emoticons according to the age factor. To compute the results, I have collected the data from 63 users around the globe. The final results were intermediate, but 3<sup>rd</sup> age group people were largely using emoticons for different things/meanings.

**Competitive Programming**

1. Secured 1<sup>st</sup> place in “in class tech challenge at UMF”, in Fall 2015
2. Secured 2<sup>nd</sup> place among 95 for driving the Physics methods into results in the Matlab software.
3. Participated two times in Hacker rank competition.
4. Secured top 1% coding masters in the class of Fall 2015.
5. Received an appreciation certificate from IIT Bombay for the exceptional work in developing the street follower robot using hand gestures 2012-2013

**Technical Skills:**

- Programming Languages:** C, Python, Java, C++
- Statistical Computing** : Matlab, Simulink
- Basic Administration** : Linux, Unix, System admin., Network admin., VMware Horizon.
- Miscellaneous** : Oracle DB, SQL, HTML, CSS, Java script, PHP, Expert in MS Office.
- Teaching Asst./Tutor** : Database Design, C, C++, Unix, Visual Basic, Oracle Databases, DBMS, PLSQL, Algorithms, Python, Basic Java and Strategic planning.

**References:** *\*Reference contact details are available up on request!!*