

Ravikumar Jeyaraman

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Education Details:

- **Master's in Computer Science** **Expected Graduation: May 2015**
University of Southern California
Current Coursework: Analysis of Algorithms, Web Technologies, Introduction to Networks
- **B.Tech in Information Technology** **May 2010**
PSG College of Technology Coimbatore, India

Technical skills:

- **Languages** C, C++, Java, SQL, Perl, JavaScript ,Shell Scripting
- **Platforms Used** Unix/Linux, Windows
- **Packages/Tools** Visual Studio, Eclipse, Wireshark, Firebug, Rational Rose , Oracle, MySQL
- **Web Technologies/Servers** XML,JSON, JSP, HTML, AJAX, PHP, Apache, Tomcat

Work Experience:

- **Motorola Solution, Bangalore, India** **Aug 2010-May 2013**
Software Engineer
 - Developed new functionalities in iDEN Gateway. Worked with **RTP,SIP** Protocols for enabling communication between iDEN and SIP networks.
 - Implemented Push to Email functionality over iDEN network which sends dispatch voice alerts to user's Mailbox.
 - Engineered Dispatch feature on Facebook which works over iDEN network. This was implemented as a prototype in '**Idea to Prototype**' event.
 - Developed Graphical User interface in Java for Commercial Mobile Alert System which enables operators to disseminate Alert Messages to large group of users.
 - Developed Policy charging and Rules Function Simulator which simulates IP Multimedia Subsystem over **Diameter Protocol** used for testing Quality of Service.
 - Implemented Network Element Simulator which serves as full featured test bed for the iDEN Operator Maintenance Console.
 - Developed Broadcast Application Client to provide GUI interface for operators which enables them to Broadcast Messages to Group of Users.
 - Instrumented a Longevity tool to benchmark iDEN Gateway, which is used for iDEN to SIP interoperability.
 - Engineered Firehose , a tool which simulates **RTP** and **iRTP** packets used for testing Transcoder.
 - Developed 3G Simulator ,which became a prominent tool in testing iDEN Gateway.
 - Received **Moment Award** in May 2012
- **Internship at Wavesat, Bangalore** **Jan 2010-May 2010**
 - Developed Graphical user Interface and Command Line Interface that enables configuration of WiMAX Customer Premises Equipment of Wavesat .
 - Took initiative to develop a Lab Monitor tool which automates monitoring and alerting Lab system status.

Academic Projects:

- Instrumented **Phantomjs**(a headless webkit) to lookup at specific IP address before performing DNS lookup.(available at <https://github.com/ravikumari/phantomjs>)
- Developed a Monitoring System in **Java RMI** with live streaming functionality.
- Worked on **Genetic Algorithms** and used it to maximize a linear function .
- Developed a weather search application using Yahoo weather API .(available at <http://cs-server.usc.edu:33894/examples/yweather1.html>)
- Developed a web based mobile Application which enabled to search tweets based on location . (available at http://cs-server.usc.edu:33893/search_request.html)
- Developed Peer to Peer file sharing system with **Mirroring** functionality over TCP/IP.

Achievements:

- **Event coordinator** for various National Level Technical events held at **P.S.G College of Technology**
- Won many prizes in **C/C++ Debugging, Algorithms, Puzzles, Coding events** conducted by various universities
- Volunteered in National Service Scheme, India, and took part in various camps.
- An active member of **ACM Student's Chapter**, PSG College of Technology