

Ravikumar Jeyaraman

213-255-9124

jeyarama@usc.edu

347,720 W 27th Street, Los Angeles, CA

Objective:

Seeking summer internship, where I can work on challenging real world problems.

Education Details:

- | | |
|--|--|
| <ul style="list-style-type: none">• Master's in Computer Science
University of Southern California
<i>Current Coursework: Analysis of Algorithms, Web Technologies, Introduction to Computer Networks</i>• B.Tech in Information Technology
PSG College of Technology Coimbatore, India | <p>Expected Graduation: May 2015</p> <p>May 2010
(GPA : 3.8)</p> |
|--|--|

Technical skills:

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

Work Experience:

Motorola Solution, Bangalore, India

Aug 2010-May 2013

Software Engineer

- Engineered Dispatch feature on Facebook which works over iDEN network. This was implemented as a prototype in '**Idea to Prototype**' event.
- 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.
- 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.
- Instrumented a Longevity tool to benchmark iDEN Gateway, which is used for iDEN to SIP inter-operability.
- Engineered Firehose , a tool which generates **RTP** and **iRTP** packets used for testing Transcoder.
- Received **Moment Award** for my consistent performance at Motorola in May 2012.

Academic Projects:

- Instrumented **Phantomjs**(a headless webkit) to lookup at specific IP address before performing DNS lookup.(available at <https://github.com/ravikumarj/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 web based mobile Application which enabled to search tweets based on location using Twitter API. (available at http://cs-server.usc.edu:33893/search_request.html)
- Developed Peer to Peer file sharing system with **Mirroring** functionality over TCP/IP.
- Developed a weather search application using Yahoo weather API. (available at <http://cs-server.usc.edu:33894/examples/yweather1.html>)

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.

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