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:

- **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
- **IDE/Packages/Tools**   Visual Studio, Eclipse, Wireshark, Rational Rose ,MySQL
- **Web Technologies/Servers**   XML,JSON, JSP, HTML, AJAX, PHP, 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** 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 . (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:33893/get_weather.php)

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