

# Ravikumar Jeyaraman

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# 347,720 W 27<sup>th</sup> Street, Los Angeles, CA

## Education Details:

To obtain 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
- **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 web based mobile Application which enabled to search tweets based on location . (available at [http://cs-server.usc.edu:33893/search\\_request.html](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](http://cs-server.usc.edu:33893/get_weather.php))

### Achievements:

- **Event Co-ordinator** 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

### Legal Status/Relocation:

- F1 Visa, open to relocation anywhere in US