Ravikumar Jeyaraman

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Education Details:

Degree	Name of the Institute	Month and Year of Pass Out	Aggregate %
B.Tech	PSG College of Technology	May, 2010	8.85/10

Undergraduate Coursework:

- Analysis of Algorithm
- Object Oriented Programming
- Operating Systems.
- Data Mining
- Computer Communication Networks

Programming skills:

Proficient : C, C++, Java,
Familiar : JavaScript, Perl, HTML, Android App Development.

Professional Experience:

Software Engineer, Motorola Solutions (Aug 30 2010 – June 2013)

In Motorola I was involved in a team which deals with Push to Talk Technology (iDEN).
I was engaged with Developing Simulators used by Testing Teams. Most of the Simulators were developed in C++.

Projects:

- **PCRF Simulator**
  Developed Policy Charging and Rules Function Simulator which simulates IP Multimedia Subsystem Diameter Rx interfaces Used for testing Quality of Service. This Simulator development was done in C++.

- **Push To Email**
  Developed Push To Email Feature .This was developed over iDEN network and was showcased as one of iDEN's usecase. **Integrated Digital Enhanced Network (iDEN)** is a mobile telecommunications technology, developed by Motorola.
  Push to Email was implemented in C++.This Prototype was showcased in Srjana , a technical Symposium in Motorola and gained lot of appreciation.

- **Dispatch from Facebook**
  Implemented Dispatch from Facebook Feature. This was developed over iDEN network. This was also developed as prototype and was showcased at Srajana , a technical Symposium in Motorola and gained lot of appreciation from higher management.

- **Multiple iDEN Gateway(iGW)**
  The 3G iDEN Gateway System (iGW) is an interface between an existing iDEN TDMA system and a generic 3G Access Network (actually any SIP/IP based system that conforms to the iGW interface).
  Involved in Major changes with component called Psudo iDEN Home Location Register (PiHLR) in iGW.This was done in C++.

- **Network Element Simulator**

  The iDEN Network Element Simulator is a full featured test bed for the iDEN Operator Maintanace Console. It functions as a set of network elements that are configured to interface to the Operator Maintanace Console.

  Implemented New features in Network Element Simulator.This was done in C++ and Java.

- **Broadcast Application Client(BAC).**
  The **Commercial Mobile Alert System (CMAS)** is an alerting network designed to disseminate emergency alerts to mobile devices such as cell phones and pagers. BAC provides GUI interface of CMAS to operators which enables them to Broadcast Messages to Group of Users.BAC Development was in Java.

- **Lab Monitoring Tool**
  Developed Lab Monitor Tool that enables Monitoring of Lab Machines.Used Expect scripts and Perl CGI for this.This Tool automatically tries to log in to Lab machines and fetches status of each machine. This collected data is then organised and displayed in Browser.

Internship at Wavesat, Bangalore (Jan 2010-May 2010).

During my Final Semester I was selected for internship at Wavesat. Involved in Development of an application that enables configuration of WiMAX Customer Premises Equipment of Wavesat (CPE) .A GUI application was developed for easy configuration of CPE. Development was mainly in Perl CGI and backend was in C++ .

College Projects:

Monitoring System using JAVA Remote Method Invocation.

Screenshot are taken in the Remote System which are sent to server.In server side Screen shot are received and stored in server's FileSystem before displaying.Remote computers FileSystem can also be explored.Java functions for listing files and directories are used at client implemetation.The enlisted files and directories are stored in string array and sent to server.

Maximising a Function using Genetic Algorithm.

Genetic Algorithm is a Search procedure where solutions are evolved.It is relatively faster than other search procedures and almost accurate solution is evolved in less number of iterations.