MANASA NAGARAJU

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- Currently pursuing graduate degree with expected graduation date: March 2017
- Previously worked for 5.5 years with expertise in GUI and Application development
- Authorized to work for any employer in USA **[H4 EAD]**
- Available to work from March 2017

MS in Computer Science | GPA: 3.585
Santa Clara University, CA

Courses: Internet of Things, Web Programming, Computer Graphics, Wireless and Mobile Networks, Big Data, OOAD, Distributed Computing, Operating Systems, Analysis and Design of Algorithms

BS in Computer Science | GPA: 3.5
PES College of Engineering, Karnataka, India

EXPERIENCE

Samsung – Senior Software Engineer, Bangalore, India   **April 2011 - May 2014**
Senior Software Engineer, Dallas, TX, USA   **6 months in 2013**

Worked as a part of commercialization team for Samsung feature phones (**S150g, Rugby, T199, S425g, and S390g**) for emerging countries and prepaid market on AT&T, T-Mobile and Tracfone.

→ Developed and customized UI for billing & SMS/MMS modules using C++.
→ Debugged & fixed customer issues related to SMS, call and browser modules using Trace32
→ Assisted the team to setup the test environment for the devices by providing trainings on testing tools and client requirements.
→ Spearheaded the device certification test process for Samsung **S150G**

Tata Elxsi – Senior Software Engineer, Bangalore, India   **Nov 2008 - March 2011**

Worked for development and customization of VoIP protocols on Polycomm and Clearone audio/video conference solutions.

→ Design and Implementation of Centralized Conference Control Protocol on Polycom HDX.
→ Debugged & fixed issues related to TLS and SRTP for Clearone MaxIP.
→ Developed GUI for Call module in desktop based VoIP video phone using Qt
→ Wrote unit and functional test cases and performed interoperability testing with various SIP servers
→ Design and Development of complete Binary Floor Control Protocol stack
→ Mentored a group of 5 engineers who were new to the project

SKILLS

Proficient: C, C++,
Familiar: HTML, CSS, Python, JavaScript, JQuery, Perl, PHP, SQL, Java

ACADEMIC PROJECTS

Food ordering website: Developed a website for ordering food from restaurants. WAMP was used to create and host the web application. **Front End:** HTML5, CSS3, Bootstrap, JavaScript

Wikipedia traffic data analysis: Applied Naive Bayes to classify topics into categories and k means clustering for performance comparison using Mahout Hadoop & Weka. Also implemented a Map Reduce program to find top pages with maximum page views

Escape Room Game: Implemented virtual escape room game in Java [Swing for GUI] using OOAD principles.

Sensors readings with AWS IoT: 1. Collected various sensors (grove temperature, humidity, co2, gas, light) readings using AWS cloud platform & Marvell IoT starter kit.
2. Visualized temperature readings using grove sensor with raspberry pi and dygraphs.

OpenGl Projects: Implementation of Sphere using recursive subdivision method**,** Robot Animation, Interactive BSpline curve design, Ray Tracing using Phong light model

Simulation of VM Scheduling: Implemented the simulation of VM scheduling algorithm in Java