

MANASA NAGARAJU

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Mountain View, CA

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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, Advanced Analysis and Design of Algorithms(ongoing)

BS in Computer Science | GPA: 3.5

EXPERIENCE

Samsung – Senior Software Engineer, Bangalore, India
Senior Software Engineer, Dallas, TX, USA

April 2011 - May 2014
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 Delivery 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.

AWS IoT Projects: 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