MANASA NAGARAJU

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- ◆ 5.5 Years of Total Work Experience in Software Development with expertise in GUI and Application development
- ◆ Authorized to work in USA **[EAD]**
- ◆ Available to work from April 2017
- ◆ **Skills:** C, C++, Java, Python

MS in Computer Science | GPA: 3.585
Santa Clara University, CA / September 2015 – March 2017

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
PES College of Engineering, Karnataka, India / 2004 - 2008

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** products.
- → Design and Implementation of Protocols
  - o Centralized Conference Control Protocol for Polycom HDX.
  - o Binary Floor Control Protocol [BFCP]
- → Debugged of various customer reported issues in Clearone MaxIP VoIP product.
- → Development of **GUI using Qt** for VoIP application.

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, JavaScript, JQuery [Bootstrap]**
Backend: PHP, MySQL

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 in Java 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**