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Education Skills & Familiar Platforms

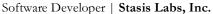


University of Southern California B.S. Computer Science Class of 2016 | 2014 GPA: 3.64 C++ • Java • Python • C • JavaScript • HTML/CSS Android • Raspberry Pi • Web

Coursework

Undergraduate – Computer Networks, Robotics, Data Structures, Algorithms, Modern Web Technologies, Advanced Statistics & Probability, Principles of Software Development, Digital Logic, Computer Architecture, Intro to Computing
 Independent – Computational Thinking and Data Science, Machine Learning, Developing Android Apps

Experience



Los Angeles, CA Jun 2015 - Present



- Working on the development & design of an Android application at a fast growing, early-stage healthcare tech startup.
- Responsible for the implementation of various features and corresponding test frameworks to enable communication with a BLE device and display, monitor and modify data in a responsive environment.
- Actively contribute to meetings and discussions to determine the direction of progress of the Software dimension of the company as well as that of the startup as a whole.

Course Producer CSCI 103 | University of Southern California

Los Angeles, CA Aug 2015 - Present



- Course producer for Introduction to Programming (in C++) at USC.
- Supervise labs along with lead Teaching Assistants as well as create/grade programming assignments.
- Hold weekly office hours to help students understand the course material/assignments.

Summer Electronics Trainee | Emmvee Photovoltaics

Bangalore, India Jun - Aug 2014



- Performed site evaluation analysis, drafted wiring diagrams, calculated and selected various components for systems based on consumer-specific constraints and requirements.
- Coordinated and worked with a team of 5 other interns to complete projects assigned by the manager utilizing different solar power industry technical software.

Projects

Distributed Database Simulation | Computer Networks • C++

[ruthvik.com/Distributed-Database-Simulation]

Coded a 3-Server/2-Client network model that communicates via TCP and UDP sockets to simulate a distributed hash table.

Virtual Retail System | **Data Structures** • C++

 Developed a program that features data encryption, product recommendations based on similarity vectors, an exhaustive search algorithm that leverages Splay Trees for efficiency purposes and a GUI developed using the Qt libraries.

UEFA Champions League Leveraged Goals | Sports Analytics • Python [ruthvik.com/Champions-League-Leveraged-Goals]

 Developed a leveraged goals model and wrote a program to scrape and statistically analyze European Soccer Champions League data to determine the value of individual goals.

Personal Voice Assistant | Raspberry Pi • C++, Python

Implemented a voice-controlled personal assistant that interprets and responds to commands by delegating requests to a set of
web APIs. Also allows Spotify playback control by acting as a local Spotify server. [Two man team]

Human Logistics | Android Web App • HTML, CSS, JQuery

- Conceived of a startup concept with a vision of transforming international courier services and developed the front-end of an accompanying web app in a two man team.
- Concept and app placed 3rd in an innovation competition hosted by Intel and the Bangalore Chamber of Industry & Commerce that was contested by over 500 teams.

Leadership Awards & Honors

Head of Publicity | **AAAI at USC** May 2015 - Present International Event Coordinator | **Project Africa** 2013