Ruthvik Peddawandla

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Education	Bachelor of Science – Computer Engineering and Computer Science
	GPA: Major – 3.10 | Fall 2014 – 3.70 [Deans List]
	University of Southern California Class of 2016

Languages/Technologies	C/C++ | Python | HTML/CSS | Raspberry Pi
Advanced Coursework	Computer Networks, Robotics, Statistics & Probability, Power Systems

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Projects

Raspberry Pi Personal Voice Assistant   July 2014
- Implemented a voice-controlled personal assistant
- Interprets requests using the wit.ai API. Delegates search queries to the WolframAlpha API and allows the user to control Spotify playback by acting as a local Spotify server.

Android WebApp Development   January 2014
- Conceived a startup concept as a part of a two-man team with a vision of transforming the international courier service by creating a network of crowd sourced couriers.
- Coded the front end of an accompanying web app using HTML, CSS and jQuery.
- Idea/concept app placed 3rd and won a cash prize of INR 20,000 in an app innovation competition contested by 500+ teams backed by Intel and the Govt. of Karnataka, India.

USC

Computer Networks [Spring 2015]: Coded a 3-Server/2-Client network model in C++ that simulated a distributed hash table. Clients communicate with a server using UDP sockets to retrieve a value stored somewhere in the network. Server-Server communication was enabled by TCP sockets.

Data Structures [Spring 2015]: Coded the front and back end of a retail system using C++. The program allows users to create accounts/log in and interactively perform search/sort/checkout requests on a specified database of products. The front end was coded using the C++ Qt Libraries.

Sports Analytics [Spring 2015]: Programmed a web scraper in Python that scraped (using BeautifulSoup) and statistically analyzed English Premier League data for a sports analytics project.

Intro to Programming [Fall 2014]: Coded the backbone of a social network in C++. Functionality included the ability to add/remove elements, read/write from/to external files, add/remove/suggest friends and find shortest paths among others.

Experience

Intern - Emmvee Solar Systems Pvt. Ltd.   July-August 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.

Intern - Hydromax Ltd.   June 2012 \| June-July 2013
- Worked with on-site crew to operate electrical powerhouse at a hydroelectric power plant.
- Shadowed project manager and contributed to problem management committee.

Leadership

Project Africa   January 2012 – May 2014
- Communicated with Ugandan organization and coordinated team's service trip to identify the biggest problems affecting a remote village in central Uganda and actively engage the locals in discussions and activities to implement solutions to overcome them.