Manny Jois

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
B.S. Electrical Engineering and Computer Science
Class of 2016
GPA: 3.96
Dean's Honors

COURSEWORK

- Data Structures
- Machine Structures
- Discrete Mathematics
- Signals and Systems
- Circuits
- Communication Networks
- Algorithms
- Operating Systems
- Programming Language Design and Implementation
- Artificial Intelligence
- Machine Learning (current)
- Randomized Algorithms (current)
- Computational Models of Cognition (current)

SKILLS

EXTENSIVE EXPERIENCE
Python • Java • C • HTML • CSS • JavaScript • Node.js • jQuery • Angular.js • Git • Bash • Linux • LaTeX

MODERATE WORK
C++ • C# • Scheme/Church • Data visualization • Classification • Eclipse

BASIC EXPOSURE
Hadoop • MATLAB

EXPERIENCE

CISCO SYSTEMS
| Software Engineering Intern
May 2014 – Aug 2014 | San Jose, CA

- Devised network topologies used to test performance of the latest iterations of network security appliances
- Wrote Python scripts to analyze and display results of code coverage test outputs.
- Team project to develop an internal tool to automatically set up test beds and run tests using driver-building software.

ASSOCIATED STUDENTS OF THE UNIVERSITY OF CALIFORNIA
| Web Development Team
Sep 2013 – May 2014 | Berkeley, CA

- Maintained web pages with data critical to the operation of the university student government.
- Part of the team tasked to transition the organization website (asuc.org) to a new host and framework.

PIONEERS IN ENGINEERING
| Kit Development Staff
Sep 2012 – Apr 2013 | Berkeley, CA

- Wrote and documented code for various robot sensors and radios.
- Worked with graduate students on implementation and integration of a field control system for annual high-school robot competition.

PROJECTS

JAVASCRIPT CONTRACTS
Nov 2014
Developed a language embedded in JavaScript to enforce function invariants at all times, as well as conduct simple tests of functions upon loading a script (see github).

LANGUAGE POPULARITY
Sep 2014
Used d3 to create a visualization of programming language popularity based on a dataset containing years of creation, language paradigm and number of GitHub repositories (see github).

UC BERKELEY FOOD PANTRY
Jan 2014 – Apr 2014
Helped create an official website (pantry.asuc.org) for the UC Berkeley Food Pantry, an initiative that looks to provide students who struggle financially with nourishing meals to support them.

HADOOP MAP-REDUCE
Sep 2013
Machine structures class project using Hadoop's MapReduce framework to analyze large bodies of text using word co-occurrence algorithms. Our program used distributed computing power to determine, given a word, what other words were most associated with it.