Michelle Koo

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Education:

University of California, Berkeley..Expected May 2017
Computer Science B.A

Related courses: Calculus II, Linear Algebra and Differential Equations, The Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability Theory, Data Structures and Advanced Programming, Machine Structures, Structure and Interpretation of Systems and Signals, 3D Animation

Fall 2015 Courses: Operating Systems, Introduction to Microelectronic Circuits, Industrial Engineering and Operations Research Mobile Meets World Entrepreneurship Challenge Lab

Work Experience:

Lawrence Berkeley National Laboratory..June 2015-August 2015
Science Undergraduate Laboratory Internship (SULI Research Intern)
- Worked in the Computational Research Division as part of the U.S. Department of Energy's SULI program on I/O optimization analysis on performance measurement data from scientific clusters
- Created a Darshan parser/tool in Python using Apache Spark that analyzed the HPC computing tools' I/O logs and calculated performance measurements
- Created an I/O performance analysis framework that helped uncover and analyze bottlenecks in the Palomar Transient Factory application using Python, Spark, iPython notebook, and Matplotlib

Undergraduate Journal of Psychology at Berkeley..January 2015-Present
Chief Technology Officer
- Maintained and updated the old website on Wordpress located at ujpb.org
- Helped create a blog hosted at undergraduatejournalofpsychologyatberkeley.wordpress.com
- Moving the website from Wordpress to create a new website hosted on Github using HTML and CSS.

University of California, Berkeley..June 2014-August 2014
The Structure and Interpretation of Computer Programs Lab Assistant/Academic Intern

- Helped, guided, and tutored students with lab exercises, homework, and projects
- Part of the Lab Review committee where I fixed errors and improved/wrote labs

Yang Fan Academy..June 2013-August 2013
Web Design Teacher
- Taught children 4th grade to 8th grade the basics of web design
- Scanned tests, managed the student database, and tutored children of all grades in math and English

Organizations:

National Society of Leadership and Success..January 2015-Present
UC Berkeley Computer Science Scholars..January 2014-Present
UC Berkeley Society of Women Engineers: Corporate Committee........................August 2014-Present
- Organize and recruit companies for the Shadow an Engineer Program
- Awarded Outstanding Committee Member Award in December 2014

Technovation Challenge Competition World Top Ten Finalist..........................August 2013-May 2013
- Created the prototype and basic functionality of a social network Android app called Neighborhoot to bring neighbors and communities together
- Gained entrepreneurship skills, teamwork skills, and basic programming skills

Projects:

I/O Analysis Framework on Measurement Data from Scientific Clusters...............Research at LBNL
"Performance Analysis Framework on Application Execution Measurement from Scientific Clusters"..Co-author on research paper at LBNL currently submitted for publishing
Undergraduate Journal of Psychology at Berkeley..http://ujpb.org
Hangman Web Application..http://michellekoo.github.io/hangman.html
Note: More projects and details are listed on my personal website http://michellekoo.github.io

Computer Skills:

Python, Java, C, Microsoft Visual Basic, Photoshop, Dreamweaver, HTML, CSS, JavaScript, MatLab, Apache Spark, OpenMP, MIPS, Git, SVN, iPython, Python MatPlotLib, Maya, Wordpress, Mac OS X, Microsoft Windows 7, UNIX, Linux