

Kevin A. Casey

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Education

University of California, Berkeley

Major: Electrical Engineering and Computer Science

Current GPA: 3.863

Expected Graduation Date: June 2016

Related Courses

Computer Science

Structure and Interpretation of Computer Programs (Python)

Data Structures (Java)

Macintosh Student Developers for OS X (Objective-C)

Machine Structures (C)

Software Engineering (Ruby on Rails)

Electrical Engineering

Intro to Microelectronic Circuits

Other Courses

Math

Single and Multivariable Calculus

Linear Algebra and Differential Equations

Discrete Mathematics and Probability Theory

Physics

Mechanics and Wave motion

Heat, Electricity and Magnetism

Experience

Academic Intern

(Fall 2013)

- Currently a lab assistant for CS61A (Structure and Interpretation of Computer Programs) and CS61C (Machine Structures).

- Explain concepts to students and confirm that they have done the labs correctly

iOS Programming

(Winter 2012 - Present)

- Designed and built an app based on Bluetooth that tracks where you parked your car
- Built multiplayer Wifi based card game Snap. Currently working on a modification of the card game Big Two
- Utility apps – A painting app with various gesture recognitions, an item storage app and a counting app designed for young children

Java/C Projects

(2011 - Present)

- Won competition in CS61B (Data Structures) for designing the best algorithms for playing the game Network.
- Had fastest algorithm in CS61C (Machine Structures) for matrix multiplication using parallelization with framework pthread

Skills

Languages: Python, Java, Objective C, C, Ruby

Operating Systems: Mac, Unix, Windows

April 5th, 2013

Dear Sir or Madam:

I am currently a freshman at UC Berkeley, majoring in EECS. In my senior year of high school I took an interest in the field of Computer Science and have since then been fascinated by technologies' ability to solve real world problems. In my two semesters at Cal, I've taken CS61A, CS61B and CS98 – Macintosh Student Developers for OS X and have appreciated the ability to redirect logic through a computer to accomplish tasks. Although I have close to nil experience with hardware and network troubleshooting I would love to have the opportunity to expand my knowledge in technology.

I've found that I enjoy the ability to spread knowledge. In high school I used to tutor my peers in an afterschool program called Open Library. It was a simple system where people could volunteer to be tutors and everyone could do work and if someone had a question one of the tutors would be delegated off to help. I generally tutored math and chemistry, as these were the subjects I felt I had the strongest grip on and I always tried to help by explaining the reasoning behind steps rather than focusing on memorizing the solution. I found that understanding the logic behind problems was generally more useful than just finishing a problem as it made people more self sufficient in tackling similar problems. Although I haven't had the chance to tutor in college I've experienced the same satisfaction by helping friends (or anyone who requests it) with CS projects. As a RCC I would have the ability to spread the knowledge that I've gained of computing to my peers.

I used an iMac during high school and am currently using a MacBook Pro in college so I am fairly familiar with the Macintosh operating system, and as an engineer I would like to believe that any advanced troubleshooting techniques could be easily picked up.

Thank you for your consideration,

Kevin Casey