

Kevin Casey

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EDUCATION

University of California, Berkeley

Major: Electrical Engineering and Computer Science

May 2016

GPA: 3.88

Relevant Coursework:

Data Structures, Machine Structures, Software Engineering, Artificial Intelligence, Computer Security, Algorithms (CS170), Macintosh Student Developers for OS X, Microelectronic Circuits

PROJECTS

Personal Project - IrrationalMind - github.com/Fortisque/irrational_mind

January 2014

- Built and designed a web app with Ruby on Rails. On inputs of decimal numbers, translates into approximate rational numbers. E.g. 0.392699 -> $\pi/8$

Photo Evidence Gallery - github.com/cs169-2013/photo_evidence_gallery

Fall 2013

- Developed a Ruby on Rails application for Bay Area Mountain Rescue Unit that is a secure photo repository to quickly share law-enforcement sensitive information.
- Used Agile development to implement features: cropping, rotation, batch uploads, geotagging

Matrix Multiply - CS61C Machine Structures

Summer 2013

- Had the fastest algorithm among 140 students using register/cache blocking, SSE instructions
- Utilized the framework pthreads for parallel processing, distributed the load over 16 logical cores

Network - CS61B Data Structures

Spring 2013

- Created an algorithm to play the game of Network using concepts of intermediate board evaluation, hash mapping, and Alpha-beta pruning that won a bracket based tournament in a class of 500

BluetoothMarkers! - github.com/Fortisque/BluetoothMarkers

December 2012 - May 2013

- Designed and built an iPhone app that tracks where you parked your car
- Worked with the Mapkit and Core Bluetooth frameworks to automatically throw down "markers" on a map at the location when a Bluetooth connection fades

EXPERIENCE

Facebook Open Academy

Spring 2014

- Invited by Professor Armando Fox to attend Facebook's Open Academy Program
- Working on with a team of students from universities around the world to contribute to the open source codebase with the help of experienced mentors.
- Active contributor to Ruby on Rails

CS61A - Computer Programs, CS61C - Machine Structures

Fall 2013

Academic Intern (Lab Assistant) Berkeley, CA

- Answered student questions in labs and office hours
- Taught and reinforced concepts through lab exercises
- Graded labs by verifying understanding and completeness

Activities

HKN - EECS Honors Society

Fall 2013 - Present

Computing Services Officer

- Full stack development for the Ruby on Rails HKN website - hkn.eecs.berkeley.edu
- sysadmin - Maintain servers, user accounts, and mailing lists

Skills

Programming Languages - Ruby, Javascript, HTML, CSS, C, Objective C, Python, Java