Jared J. Rulison

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EDUCATION

University of California, Berkeley, Berkeley CA 2013-Present

- **Bachelor of Science, Electrical Engineering and Computer Science** - Expected 2017. GPA: 3.7

Los Altos High School, Los Altos CA 2009-2013

INDEPENDENT PROJECTS (find most at http://www.github.com/Rulison)

- **Live Twitch**: A Chrome extension that lists followed channels of a given Twitch username and shows if each is live or not. Worked around Google Javascript security restrictions by taking apart Twitch Javascript API source code.
- **Hack Ideas (In Progress**): A website for organizing and sharing ideas for hackathons. Tools used include MongoDB and Flask
- **RSA Chat**: A Java networked chatroom GUI for demonstrating RSA encryption for education purposes. Demonstrates secure communication between two people and any number of interceptors (spectators).
- **KeyFinder:** A Java GUI that determines the key a song is in when lyrics and chords are pasted in.
- **Minecraft-Sudo-Plugin:** A Java plugin for Minecraft that allows users to send certain commands without having to grant them excessive permissions.
- **PianoHero:** A Java GUI like Guitar Hero, but simulating playing a piano. Allows for training mode by playing through songs at slower speeds.

EXPERIENCE

***Research Assistant**: UC Berkeley Prof. Laura Waller Lab, Dept. of Electrical Engineering and Computer Science* August 2013-Present

- Assisting in programming CellScope, a portable Android-operated microscope. Implementing communication between phone and microscope and optimizing processing capabilities of Dalvik. Tools used include Python, C++, and Arduino.

***Problem Grader**: Art of Problem Solving*: August 2013-Present

- Grading students' solutions for classes ranging from high-school level geometry to data structures in Java.

***Research Assistant**: Stanford Prof. Miriam Goodman Lab, Dept. of Molecular and Cellular Physiology* June-August 2013

- Wrote programs to streamline experiments for other researchers. Tools used include Arduino, VBScript, Python, and C.

***Quality Control Intern**: Intuitive Surgical, Inc in Mountain View* July-August 2012

- Improved machine training simulator by implementing sanity checks. Resulted in several reliability improvements to developed piece of software. Used Python.

COURSEWORK

- CS61A: The Structure and Interpretation of Computer Programs
- CS61B: Data Structures
- CS61C: Machine Structures
- EE20: Signals and Systems
- Stats 21: Intro to Probability and Statistics for Business
- CS170: Efficient Algorithms
- EE40: Introduction to Microelectronic Circuits
- CS70: Discrete Math and Probability Theory

SKILLS

- Java (Proficient), Python (Proficient), C (Proficient), HTML/CSS/Javascript (Familiar with), C++ (Familiar with)
- Used Apache Spark, Flask, MongoDB, Arduino

LEADERSHIP

***Director of Industrial Relations**: Institute of Electrical and Electronic Engineers* August 2013-Present

- Establishing and maintaining relations with members of industry. Organize and lead on-campus recruiting events and information sessions.
- Leader in biannual student-run UCB EECS startup fair, the largest student-run career fair with over 40 company representatives and 700 attending students.

***Coordinator**: Cal Community Music* June 2014-Present

- Recruiting members and overseeing weekly concerts and get-togethers.