

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

EXPERIENCE

Software Engineering Intern: Google, Inc.

May 2015-August 2015

- In natural language processing research team prototyping an interface for talking to website and apps. Created experimental framework for crowd-sourcing datasets of natural language queries. Established baseline measurements on labeled datasets using context-free grammars. Tools used include Python, C++, and internal Google tools.

Research Assistant: UC Berkeley Prof. Laura Waller Lab, Dept. of Electrical Engineering and Computer Science August 2013-May 2015

- Assisting in building and programming CellScope, a portable Android-operated microscope. Optimizing image processing techniques using the Android NDK. Tools used include Python, C++, and Arduino.

Problem Grader: Art of Problem Solving:

August 2013-Feb 2015

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

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 systematic testing of edge cases. Resulted in several reliability improvements to developed piece of software. Used Python.

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

- **Quick 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. Currently available in Chrome App Store.
- **Auricle:** iPhone app for ear training. First component is a library of intervals that allows user to hear any interval. Second component is a quiz portion, which plays the interval and asks user for its identity. Tools used include Obj-C, Xcode.
- **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. It does this by decomposing chords into notes and finding the best-fitting scale.
- **Minecraft-Sudo-Plugin:** A Java plugin for Minecraft that allows users to send certain commands without having to grant them excessive permissions.

COURSEWORK

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| • CS188: Artificial Intelligence | • CS184: Computer Graphics |
| • CS61A: The Structure and Interpretation of Computer Programs | • Stats 21: Intro to Probability and Statistics for Business |
| • CS61B: Data Structures | • CS170: Efficient Algorithms |
| • CS61C: Machine Structures | • EE40: Introduction to Microelectronic Circuits |
| • EE20: Signals and Systems | • CS70: Discrete Math and Probability Theory |

SKILLS

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

LEADERSHIP

External Vice President: Institute of Electrical and Electronic Engineers

May 2015-Present

- Establishing and maintaining relations with members of industry. Organizing and leading on-campus recruiting events and information sessions.
- Leader of 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-May 2015

- Recruiting members and overseeing weekly concerts and jam sessions.