

# Evan Hubinger

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CONTACT INFORMATION	evanjhub@gmail.com <a href="https://github.com/evhub">https://github.com/evhub</a> (925) 240-3826	340 E. Foothill Boulevard Box 409 Claremont, CA 91711	
EDUCATION	<b>Harvey Mudd College</b> , Claremont, CA <b>B.S. in Mathematics and Computer Science</b>  <b>The College Preparatory School</b> , Oakland, CA	Expected Graduation: May 2019 GPA: 3.7 (Dean's List)  Graduated: May 2015	
PROGRAMMING LANGUAGES	<b>Expert</b> Python, Coconut	<b>Proficient</b> Haskell, C++, JavaScript, CoffeeScript, MATLAB	<b>Knowledgeable</b> R, Java, Mathematica
SUMMARY	Three summers of professional software engineering experience, one at Yelp and two at Ripple. Created two major open-source projects, the Coconut programming language and Undebt, which together have over 2,000 stars on GitHub. Studying mathematics and computer science at Harvey Mudd College.		
WORK EXPERIENCE	<b>Computer Science Grader and Tutor</b> <b>Harvey Mudd College, Claremont, CA</b> January - May 2016; September 2016 - Present <ul style="list-style-type: none"><li>• Currently grading and tutoring for Principles and Practices of Computer Science.</li><li>• Previously graded and tutored for Computer Science for Insight.</li></ul> <b>Software Engineering Intern</b> <b>Yelp, San Francisco, CA</b> June - August 2016 <ul style="list-style-type: none"><li>• Primary author of Undebt, an open-source static code analysis tool for massive automated code refactoring with over 1,300 stars on GitHub.</li><li>• Wrote a blog post on Undebt (link below), which proved to be Yelp's most popular blog post to date and was featured on the front page of Hacker News. <a href="https://engineeringblog.yelp.com/2016/08/undebt-how-we-refactored-3-million-lines-of-code.html">https://engineeringblog.yelp.com/2016/08/undebt-how-we-refactored-3-million-lines-of-code.html</a></li><li>• Fixed errors in Yelp's configuration management that had previously taken down yelp.com multiple times.</li><li>• Rewrote Yelp's system for running large batch data processing operations with EMR.</li></ul> <b>Software Engineering Intern</b> <b>Ripple, San Francisco, CA</b> June - August 2014; June - August 2015 <ul style="list-style-type: none"><li>• Worked on designing Interledger, a trustless system for cross-currency transactions between arbitrary agents.</li><li>• Wrote a tool to do cryptographically secure generation of wallets for financial institutions.</li><li>• Developed a program to manage Ripple's GitHub infrastructure.</li></ul>		
PERSONAL PROJECTS	<b>The Coconut Programming Language</b> <a href="http://coconut-lang.org">http://coconut-lang.org</a> October 2014 - Present Created the Coconut programming language, a novel functional programming language that compiles to Python. Coconut has been viewed over 35,000 times, has collected over 700 stars on GitHub, has been shown on the front page of Hacker News, r/Python, and r/Programming, has been featured on InfoWorld.com and Pointer.io, and has a regular, dedicated 45-person meetup in NYC. See Coconut's website (link above) for more information.  <b>DeTeXiPi</b> October 2015 Hackathon project to load DeTeXify onto a Raspberry Pi and connect it to a computer as a keyboard that types out LaTeX commands for drawn symbols.  <b>Discrete Wavelet Transform Steganography</b> <a href="https://github.com/evhub/steganography">https://github.com/evhub/steganography</a> April - May 2015 Developed a program to perform image steganography using the discrete wavelet transform method. Written in Coconut.		

## Iterated Recursive Prisoner's Dilemma Simulator

April 2015

<https://github.com/evhub/prisoner>

Developed a library for performing and competing in iterated prisoner's dilemma competitions in which the competing programs can simulate the opposing programs. Written in Coconut.

## The Rabbit Programming Language

April - December 2014

<https://github.com/evhub/rabbit>

Created the Rabbit Programming Language, a purely functional, interpreted, dynamically-typed scripting language built on top of universal Python for full interoperability. Wrote a technical paper describing the language, which can be found on GitHub.

### OPEN SOURCE CONTRIBUTIONS

**The Python Programming Language** Minor unittest and documentation improvements.

**Jupyter (IPython)** Fixed an issue that broke custom syntax highlighting.

**StaticConf** Improved resiliency in the event of missing data.

**PyParsing** Fixed numerous issues including Unicode support and PyPy compatibility.

**RippleD** Significant improvements to the compilation/build process.

**Codius** Minor improvements to Python sandboxing and documentation.

### RELEVANT COURSES

#### Independent Study in Computer Science

Fall 2016

- Working directly with Prof. Chris Stone on Coconut development and research.

#### Image Processing and Object Recognition

Fall 2016

#### Advanced Differential Equations and Linear Algebra

Summer 2016

#### Discrete Mathematics

Spring 2016

#### Data Structures and Program Development

Fall 2015

### OTHER ACTIVITIES AND AWARDS

National Forensics League Honor Society Outstanding Distinction (2015), National Policy Debate Tournament of Champions (2014, 2015), East Bay Debate League Assistant Tournament Director (2013 - 2015), College Prep Computer Science Club Leader (2013 - 2015), National Latin Examination Summa Cum Laude (2014), National AP Scholar (2015), National Merit Commended Scholar (2014), International Mathematics and Verbal Talent Search High Honors (2010)