Evan Hubinger

Contact Information

evanjhub@gmail.com
https://github.com/evhub
(925) 240-3826

340 E. Foothill Boulevard
Box 409
Claremont, CA 91711

Education

Harvey Mudd College, Claremont, CA — Expected Graduation: May 2019
B.S. in Mathematics and Computer Science — GPA: 3.856 (Dean's List)

The College Preparatory School, Oakland, CA — Graduated: May 2015

Programming Languages

Expert	**Proficient**	**Knowledgeable**
`Python, Coconut`	`Go, JavaScript, C++, Haskell, MATLAB`	`R, Java, Mathematica`

Summary

Four summers of professional software engineering experience at Google, Yelp, and Ripple. Created two major open-source projects, the Coconut programming language and Undebt, which together have over 2,000 stars on GitHub. Dean's list student majoring in mathematics and computer science at Harvey Mudd College.

Work Experience

Site Reliability Engineering Intern — May - August 2017
Google, Mountain View, CA
• Worked as a Launch Coordination Engineer developing the software Google uses to perform production reviews of new launches.
•

Computer Science Grader and Tutor — January - May 2016; September 2016 - May 2017
Harvey Mudd College, Claremont, CA
• Graded and tutored Data Structures and Program Development, Principles and Practices of Computer Science, and Computer Science for Insight.

Software Engineering Intern — June - August 2016
Yelp, San Francisco, CA
• Primary author of Undebt, an open-source static code analysis tool for massive automated code refactoring with over 1,300 stars on GitHub.
• 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.
https://engineeringblog.yelp.com/2016/08/undebt-how-we-refactored-3-million-lines-of-code.html
• Fixed errors in Yelp's configuration management that had previously taken down yelp.com.
• Rewrote Yelp's system for running large batch data processing operations in EMR.

Software Engineering Intern — June - August 2014; June - August 2015
Ripple, San Francisco, CA
• Worked on designing Interledger, a trustless system for cross-currency transactions between arbitrary agents.
• Wrote a tool to do cryptographically secure generation of wallets for financial institutions.
• Developed a program to manage Ripple's GitHub infrastructure.

Personal Projects

The Coconut Programming Language — October 2014 - Present
http://coconut-lang.org
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.

DeTeXiPi — 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.

Discrete Wavelet Transform Steganography — April - May 2015

https://github.com/evhub/steganography
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

Pre-Commit Fixed an issue that prevented installation on Windows machines.
Conda Fixed an issue that prevented installation of certain PyPI packages.
Jupyter (IPython) Fixed an issue that broke custom syntax highlighting.
Python Typeshed Added type annotations for standard library module `future_builtins`.
PyParsing Fixed numerous issues including Unicode support and PyPy compatibility.
StaticConf Improved resiliency in the event of missing data.
The Python Programming Language Minor unittest and documentation improvements.
RippleD Significant improvements to the compilation/build process.
Codius Minor improvements to Python sandboxing and documentation.

Relevant Courses

Computability and Logic Spring 2017
Mathematical Analysis Spring 2017
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
Multivariable Calculus 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)