Evan Hubinger

Contact Information

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Education

Harvey Mudd College, Claremont, CA — Expected Graduation: May 2019
B.S. in Mathematics and Computer Science — GPA: 3.7 (Dean's List)

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

Programming Languages

Expert	**Proficient**	**Knowledgeable**
`Python, Coconut`	`Haskell, C++, JavaScript, CoffeeScript, MATLAB`	`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

Computer Science Grader and Tutor — January - May 2016; September 2016 - Present
Harvey Mudd College, Claremont, CA
- Currently grading and tutoring for Principles and Practices of Computer Science.
- Previously graded and tutored for 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 multiple times.
- Rewrote Yelp's system for running large batch data processing operations with 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

The Python Programming Language Minor unittest and documentation improvements.
Jupyter (IPython) Fixed an issue that broke custom syntax highlighting.
Python Typeshed Added type annotations for standard library module `future_builtins`.
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 Disctinction (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)