

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 B.S. in Mathematics and Computer Science The College Preparatory School , Oakland, CA	Expected Graduation: May 2019 GPA: 3.856 (Dean's List) Graduated: May 2015	
PROGRAMMING LANGUAGES	Expert Python, Coconut	Proficient Go, JavaScript, C++, Haskell, Cython	Knowledgeable R, Java, MATLAB, Mathematica
SUMMARY	Four summers of professional software engineering experience at Google, Yelp, and Ripple. Author of Undebt and the Coconut programming language, which together have over 2,500 stars on GitHub. Presented on Coconut at PyCon 2017 and was interviewed on Coconut for TalkPython, Podcast.__init__, and Functional Geekery. Dean's list student majoring in mathematics and computer science at Harvey Mudd College.		
WORK EXPERIENCE	Computer Science Grader and Tutor Harvey Mudd College, Claremont, CA January 2016 – Present • Graded and tutored Computability and Logic, Data Structures and Program Development, Principles and Practices of Computer Science, and Computer Science for Insight. Site Reliability Engineering Intern Google, Mountain View, CA May – August 2017 • Worked as a Launch Coordination Engineer (LCE) developing the software Google uses to perform production readiness reviews of new product launches. • Revamped the custom domain-specific language built by the LCE team to automate launch reviews. Software Engineering Intern Yelp, San Francisco, CA June – August 2016 • Primary author of Undebt, an open-source static code analysis tool for massive automated code refactoring with over 1,400 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 data processing operations in Elastic Map Reduce. Software Engineering Intern Ripple, San Francisco, CA June – August 2014; June – August 2015 • 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. • Contributed significant improvements to the compilation/build process of the open-source RippleD project.		
PERSONAL PROJECTS	The Coconut Programming Language http://coconut-lang.org October 2014 – Present • Created the Coconut programming language, a novel functional programming language that compiles to any Python version. Supports pattern-matching, algebraic data types, TRE/TCO, and much more. • Coconut has been viewed over 50,000 times; has over 1,100 stars on GitHub; has been shown on the front page of Hacker News, r/Python, and r/Programming; and has been featured on InfoWorld.com and Pointer.io. • Presented on Coconut at PyCon 2017 (see https://us.pycon.org/2017/schedule/presentation/56). • Was interviewed on Coconut for TalkPython, Podcast.__init__, and Functional Geekery. Blackboard https://github.com/evhub/blackboard September 2017 – Present Developed a universal black box optimization framework for tuning hyperparameters. Written in Coconut.		

	cPyparsing https://github.com/evhub/cyparsing Reimplemented PyParsing in Cython to achieve $\approx 30\%$ better performance for Coconut and Undebt.	July 2017
	Cards Against Humanity https://github.com/evhub/cards-against-humanity Developed a program for playing Cards Against Humanity with custom cards over IRC. Written in Coconut.	July 2014 – May 2017
	PyProver https://github.com/evhub/pyprover Developed a library for resolution theorem proving in first-order predicate logic. Written in Coconut.	March 2017
	DeT_EXiPi Hackathon project to laod DeT _E Xify onto a Raspberry Pi, connect it to a computer, draw symbols on it, and have it type out the L ^A T _E X commands for those symbols on the computer.	October 2015
	Discrete Wavelet Transform Steganography https://github.com/evhub/steganography Developed a program to perform discrete wavelet transform image steganography. Written in Coconut.	April – May 2015
	Iterated Recursive Prisoner’s Dilemma Simulator 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.	April 2015
	The Rabbit Programming Language https://github.com/evhub/rabbit Created the Rabbit programming language, a purely functional, interpreted, dynamically-typed scripting language built on top of Python. Wrote a technical paper describing the language.	April – December 2014
OPEN SOURCE CONTRIBUTIONS	Pre-Commit Fixed an issue that prevented installing pre-commit on Windows machines.	July 2017
	Conda (of Anaconda) Added support for advanced PEP 496 packaging features.	May 2017
	Python Typeshed Added type annotations for the <code>future_builtins</code> module.	October 2016
	Jupyter (formerly IPython) Added support for custom syntax highlighting.	July 2016
	StaticConf Improved resiliency in the event of missing data.	September 2016
	PyParsing Fixed numerous issues including Unicode support and PyPy compatibility.	November 2015
RELEVANT COURSES	Machine Learning	Fall 2017
	Neural Networks	Fall 2017
	Abstract Algebra	Fall 2017
	Computability and Logic	Spring 2017
	Mathematical Analysis	Spring 2017
	Independent Study in Computer Science	Fall 2016
	• Worked directly with Professor Christopher 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	Harvey Mudd Physics Department Rojansky Writing Award Winner http://evhub.github.io/papers/everett.pdf Awarded for the technical writing in my paper <i>Multiple Worlds, One Universal Wave Function</i> (link above).	May 2017
	Harvey Mudd Effective Altruism Club Leader (2017) — Effective Altruism Global Attendee (2017) — World Wide Web Consortium Interledger Payments Community Group Member (2016) — 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 AP Scholar (2015) — National Latin Examination Summa Cum Laude (2014) — National Merit Commended Scholar (2014) — International Mathematics and Verbal Talent Search High Honors (2010)	