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"A motivated computer scientist and ViM nerd with 5+ years of experience who is obsessed with high-performance code/algorithms and enjoys building personal projects and hacks in C/C++. I am looking to utilize and develop my skills at a Computer Science internship."

Education and Training

University of Santa Barbara California

Santa Barbara, California

COMPUTER SCIENCE BS, COLLEGE OF CREATIVE STUDIES (CCS)

- Probability), Linear Algebra, Calculus III Multivariable Calculus.
- Standardized Tests SAT: 1530/1600, SAT Math II: 800/800, AP Computer Science A: 5
- 1 of 6 freshmen chosen to pursue research and an accelerated Computer Science courseload in College of Creative Studies.

Python Boot Camp at UC Berkeley

Berkeley, California

PYTHON DATA SCIENCE AND WEB DEVELOPMENT CERTIFICATE

 Python Boot Camp: A rigorous course in the Python Scripting Language covering website backends(Django), data processing libraries (NumPy, pandas, SciPy, etc.), and Git version control.

• Relevant Coursework: Algorithms and Data Structures in C++, Unix Operating Systems Lab, Mathematics of Computer Science (Discrete Math &

PROMYS Research Scholarship (Program in Mathematics for Young Scientists)

Boston University

CERTIFICATE OF COMPLETION (CLAY MATHEMATICS INSTITUTE)

· One of 80 students, national and international selected in 2017 to do research in number theory at Boston University (six-week summer program sponsored by the Clay Institute) under the mentorship of professors and graduate students from universities such as MIT, Harvard, Princeton.

Skills

Programming Languages

C/C++, JAVA, Python, Django, HTML/CSS, Javascript, LaTeX

Solved hundreds of algorithm and security problems on PicoCTF, Project Euler, USACO, Codeforces, Google Foobar, etc. **Software** Git, ViM, Linux Development, Eclipse, Matlab, Adobe Photoshop and Illustrator, Excel

Projects

Linux Fake Webcam

Wrote a multi-thousand line program in C which allows users to impersonate anybody on webcam chat. The program does this by inputting a video and a corresponding JSON file with timestamps to the actions in the video and transitions between them. The GUI allows users to smoothly and convincingly control the actions that appear on their webcam. It does this by using linux video libraries and kernel modules to pipe video into the webcam device.

Masterlock Combo Solver

Built a robot which is able to unlock any master combination lock and output its combination by designing a custom breadboard circuit, writing Arduino code, 3D printing a frame, and assembling together with motors.

Neural Network Game Bot

Developed an AI player in Javascript using neural networks and evolutionary learning algorithms. The bot teaches itself how to complete any level of a platformer game (similar to mario) given only the game controls and end destination.

Django Database & Website

Created a large database web application in Django used by Albany High School to organize annual freshmen debates.

LISP interpreter in SNAP

Designed an interpreter for LISP on top of SNAP (a visual programming language) in a clever attempt to loophole the requirement of using a visual language for in-class projects, and instead using a written language.

Honors & Awards

2016-18	USA Computing Olympiad (USACO) , Platinum Division in Algorithms and Data Competition (top 5% nationally)	California, US
	1st Place Award PiE Robotics Competition at UC Berkeley, First Place Award and Software/Sensors Award out	
2017-18	of 30+ schools. As president of Robotics Club, I trained a team in different areas of STEM, and lead them to victory	California, US
	in competition. I gained skills in wiring and programming Arduinos, Beaglebones, and reading hardware specs.	
2017-18	Moody Mega Math Modeling Challenge , Data Modeling Paper Award and \$1000 Scholarship (top 8% nationally)	California, US
2016-17	Bay Area Mathletes, Undefeated Math Team in competition with all Bay Area high schools	California, US
2016-17	The National French Contest (Le Grand Concours), Gold Medal (top 5% nationally)	California, US