

Andrew Gordon

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Full Stack Software Engineer

WORK EXPERIENCE

Freelance

San Rafael, CA

Full Stack Software Engineer

August 2021 – Present

- Develop cross-platform, finance applications for two clients on Web, Android, and IOS utilizing Node.js, JavaScript, Flutter, Python, and Google Cloud Platform services such as Firebase, Firestore, and sign-ins.
- Deploy Node.js backends with NoSQL databases storing user data and cached application programming interface (API) calls for stock market quotes, reducing reliance on external services up to 90%.

UCSC-Cisco Sponsored Project

Santa Cruz, CA

Backend Software Engineer

January 2021 – July 2021

- Headed development of key cryptography and adaptive routing in a mesh-network generator (Golang, virtual private network, BGP), ensured 100% encrypted communication. Scrum master for AGILE development team.
- Composed weekly progress reports and collaborated with a team of network engineers at Cisco, enabling successful delivery of two releases in six months (each release generated during five, two-week sprints).

University of California, Santa Cruz

Santa Cruz, CA

Computer Science Grader

January 2021 – June 2021

- Automated testing of student programs with Perl and Bash scripts that reduced the time spent grading by 80% for over 160 student programming assignments written in Perl, OCAML, Smalltalk, and Scheme.

iD Tech

San Francisco, CA

Computer Science Instructor

July 2020 – February 2021

- Developed and taught personalized computer science curriculum for Python, Machine Learning, Java, JavaScript, and circuitry for over 50 students in person and over 100 students in online sessions (ages 8 to 19).

Lantern Medical

San Rafael, CA

Software Engineering Intern

May 2020 – December 2020

- Devised C programs for STM micro-processors to retrieve and parse real-time streams of remote distance sensor data (time of flight up to two meters) to enable touchless, gesture-activated devices.

PROJECT AND LEADERSHIP EXPERIENCE

GoGuard – Mesh Network Generator – Sponsored Project by Cisco

Backend Software Engineer

- Increased testing efficiency by 30% with unit tests via virtual networks in Docker, AWS EC2, and Bash Scripts.
- Implemented proxying of requests by services allowing the system to adapt and have a fault tolerance of 99%.

Delish – Restaurant Finding Full Stack Web App

Full Stack Software Engineer

- Built front-end and requests to Google APIs for displaying 140 restaurants by cuisine type at search locale.
- Contributed debugging of JavaScript code and assigning tasks which expedited feature completion by 40%.
- Incorporated sign-ins and caching of API data with Google Cloud Platform to crowdsource restaurant ratings.

EDUCATION

The University of California, Santa Cruz

Santa Cruz, California

Bachelor of Science in Computer Science, Minor in Electronic Music

Graduation Date: June 2021

- Awards/Organizations: **3.8 GPA**, Cum Laude Honors, Dean's Honors List, Club Volleyball President.

SKILLS & INTERESTS

Skills: Python, Java, JavaScript, C, Golang, PostgreSQL, NoSQL, Docker, HTML, Git, Tensorflow, NumPy, Node.js, React, Flask, GCP, AWS EC2, UNIX, Linux, Flutter, Dart, AGILE, Ableton, Max MSP, 100+ WPM

Interests: Application Development, Data Engineering and Analysis, Algorithmic Analysis, Machine Learning, Cloud Computing, Computer Audio Applications, Digital Signal Processing, Music Production, Piano, Volleyball