

# Andrew Gordon

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## WORK EXPERIENCE

### Freelance

**San Rafael, CA**

*Full Stack Developer*

*August 2021 – Present*

- Develop cross-platform, full-stack, finance applications for Android, IOS, and Web utilizing Flutter, Dart, Python, and Google Cloud Platform services such as Firebase, Firestore, and Sign-Ins.
- Deploy backends with Node.js to service NoSQL databases that retain 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 encrypted communication and route-finding in mesh network generator developed for Cisco. Scrum master on an AGILE team of four computer science students at UCSC.
- Composed weekly progress reports and coordinated 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*

- Provided grading and technical feedback on 160 student programming assignments written in PERL, OCAML, Smalltalk, and Scheme.
- Created automated testing of student programs with Perl and Bash scripts that reduced the time spent processing assignments by 80%.

### 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).
- Fostered communication with parents and students to ensure their progress and hosted ten student showcases.

### Lantern Medical

**San Rafael, CA**

*Software Engineering Intern*

*May 2020 – December 2020*

- Devised C programs for STM micro-processors to retrieve and parse 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

**Santa Cruz, CA**

*Backend Software Engineer*

*January 2021 – July 2021*

- Incorporated public-key cryptography and adaptive routing via BGP to ensure 100% encrypted communication. Execution of proxying data through nodes allowed the network to perform with a fault tolerance of up to 99%.
- Identified time wasted on manual testing and orchestrated new unit testing with virtual networks in Docker, AWS EC2, and Bash Scripts to quickly verify secure communication and adaptive routing of information.

### Delish – Restaurant Finding Full-Stack Web App

**Santa Cruz, CA**

*Full Stack Developer*

*September 2020 – December 2020*

- Built front-end functionality and data retrieval for a full-stack web application as part of an AGILE team with five students in the software engineering track at UCSC.
- Contributed technical assistance by debugging code and assigning tasks to expedite the completion of features.
- Engineered UI and API requests to retrieve and display 20 restaurants by cuisine type for any search locale. 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