

# Andrew Gordon, Software Engineer

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## EXPERIENCE

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- Freelance Full-Stack Software Engineer, San Rafael, CA (Aug 2021 to Present)
  - Develop applications for Android, IOS, and Web utilizing Flutter, Dart, Python and Google Cloud Platform. Build backend with JavaScript, Node.js and Firebase.
- UCSC Cisco-Sponsored, Backend Developer, Santa Cruz, CA (Jan 2021 to June 2021)
  - Implemented encrypted communication and dynamic proxying in a mesh network generator utilizing VPNs, BGP, and Golang. Tested system via Docker and Bash.
- UCSC Computer Science, Grader, Santa Cruz, CA (Jan 2021 to June 2021)
  - Provided grading and feedback on student programming assignments in PERL, Smalltalk, OCAML and Scheme. Develop automated testing in Unix with Bash.
- iD Tech Camps, Computer Science Instructor, CA (Summer 2019, July 2020-Feb 2021)
  - Developed and taught computer science curriculum for Java, Python, JavaScript, Machine Learning, AI, and circuitry for teens and children.
- Lantern Medical, Software Engineering Intern, CA (May 2020 to December 2020)
  - Responsible for C programs for STM micro-processors to retrieve and utilize remote distance and ALS sensor data.

## PROJECTS

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- [Alpha Return](#), Cross-platform Finance App: Flutter, Dart, GCP, Node.js, JS, Python
- [GoGuard](#), Sponsored Project by Cisco: WireGuard, Consul, Redis, Golang, BGP
- [Delish Food Finder](#), Full Stack Web-App: GCP, JS, Google Maps API, NoSQL, Node.js
- [Netflix Clone](#): React JS, NoSQL DataStax AstraDB, GraphQL, JavaScript, HTML
- [Line Find](#), Math Library for Python: DFS, Python, Recursion, Matplotlib, IO, Unittest
- [Threaded HTTP Server and Load Balancer](#): C, Multithreading, Posix, Sockets, HTTP
- **Portfolio**: <https://andrewgordon.herokuapp.com/>

## EDUCATION

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- University of California, Santa Cruz, Class of 2021
  - Computer Science B.S. and Electronic Music Minor, **GPA: 3.8** (Cum Laude)
    - Notable Courses: Software Engineering, System Design, Database Systems, Algorithms Analysis, Data Structures, Applied Machine Learning
    - Focus Areas: Runtime Analysis, Space Complexity Analysis, Algorithms, Object Oriented Programming, Full Stack Development, Software Architecture, AGILE, Dynamic Programming, Hash Tables, Graphs, Trees
  - President of UCSC Club Volleyball (Fall 2019-20); UCSC Entrepreneurship Club
  - Dean's Honors List Winter/Fall 2018, Winter 2019, Winter/Fall 2020
- UC Santa Barbara (Summer 2018): Financial Accounting, Music Theory

## SKILLS

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- Technology: Python, Linux, JavaScript, Java, SQL, C, Golang, Flutter, Dart, Docker, HTML, Git, UNIX, GCP, Node.js, Google APIs, AGILE Development, AWS EC2
- Linguistic: Conversational French (4 years of study)
- Computer Music: Ableton, FL Studio, Reaper, DSP, Audio Engineering, Sound Design, Max MSP, Librosa for Python