

# ANDREW D. GORDON

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## EXPERIENCE

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- Lantern Medical, Software Engineering Intern, CA (May 2020-Present)
  - Developing C programs for STM micro-processors to retrieve and utilize remote distance and ALS sensor data.
- UCSC Comparative Programming, Grader, Santa Cruz, CA (Jan 2021-June 2021)
  - Provided grading and feedback on student programming assignments in PERL, Smalltalk, OCAML and Scheme.
- UCSC Electronic Sound Synthesis, TA/Grader, Santa Cruz, CA (Jan 2021-June 2021)
  - Provided in-class assistance, feedback on assignments, and Digital Audio Workstation support for students.
- iD Tech Camps, Programming Instructor, CA (Summer 2019, July 2020-Feb 2021)
  - Developed and taught computer science curriculum about Python, Java, JavaScript, Machine Learning/AI, and circuitry for teens and children.

## PROJECTS

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- [Delish Food Finder](#), Full Stack Web-App: GCP, JS, Google Maps API, NoSQL, Node.js
- [GoGuard](#), Sponsored Project by Cisco: WireGuard, Consul, Redis, Golang, BGP
- [Line Find](#), Math Library for Python: DFS, Recursion, IO, OS, Python, Unittest
- [Poly NS Tuner](#), Pitch Detection: NumPy, Fourier Analysis, Pitch Tracking, Scale Detect
- [Threaded HTTP Server and Load Balancer](#): C, POSIX Threads, Sockets, HTTP
- [Real Estate Database Application](#): PostgreSQL, C, Store Function, libpq library
- **Portfolio**: <https://andrewgordon.herokuapp.com/>

## EDUCATION

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- University of California, Santa Cruz, Class of 2021, Honors Graduate
  - Computer Science B.S. and Electronic Music Minor, **GPA: 3.75** (Cum Laude)
    - Notable Courses: Software Engineering, System Design, Database Systems, Algorithms Analysis, Data Structures, Applied Machine Learning
    - Focus Areas: Runtime and Space Complexity Analysis, Object Oriented Programming, Full Stack Development, Software Architecture, AGILE Methodology, 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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- Technical: Python, C, Java, JavaScript, Golang, SQL, Docker, HTML, Git, UNIX/Linux, GCP, Node.js, AGILE Development, AWS EC2, Google APIs, 100+ WPM
- Linguistic: Four years of French study and conversation
- Computer Music: Production in Ableton, FL Studio, Reaper, DSP, Audio Engineering, Sound Design, Max MSP, Librosa for Python