Gabriel Banks   808-866-0439   gabe@gabebanks.net

EXPERIENCE

Cogo Labs, *Cambridge, MA — Lead software engineer*   JUNE 2022 - PRESENT
- Raised $1M+ for a stealth startup incubated by Cogo Labs. Oversee development of our product. Manage my team, assign tasks/issues, perform code reviews, and organize deployment with CI/CD (Vercel). Focus my team on fast delivery of product and rapid iteration from customer feedback.
- When I joined my team of co-founders, I took their wireframe and single-handedly developed it into the MVP in 6 days. This is partly why the CEO made me Lead Software Engineer.

'Iolani School, *Honolulu, HI — Software engineer*   OCTOBER 2021 - JUNE 2022
- Created a Progressive Web App called IoBot using React. It is a bell and scheduling app for teachers and students at 'Iolani School. Pulls data from Google Calendars and extracts pertinent bell schedule information. 6k active daily users.

MIT Lincoln Labs BWSI, *Cambridge, MA — Software engineering intern*   JUNE 2021 - AUGUST 2021
- Worked on an algorithm called "backprojection" which is used for converting raw Synthetic Aperture Radar data into coherent photographs. Implemented using Python.
- Placed first in an internal team competition that relied heavily on software engineering skills for success. On my team of four, I was the lead software architect and oversaw the integration of other team members' code into our project.

ACR Capital LLC, *New York City, NY — Software engineering intern*   JUNE 2020 - AUGUST 2020
- Software engineering intern at ACR Capital, a quantitative investment trading firm.
- Converted an old codebase of 300+ scripts from Python 2 into Python 3. Prioritized scripts to be converted based on identifying scripts with highest usage and importance to the company. Wrote unit tests and end-to-end tests to ensure smooth deployment and error catching. Learned lots about quantitative finance and markets.

PERSONAL PROJECTS

CryptoRamp   AUGUST 2022
- Created a web3 dApp that allows users to exchange USD for the CELO chain's stablecoin, cUSD. Uses ethers.js and TypeScript.

paperportfol.io   APRIL 2022
- Created a full stack web application that allows users to build a stock portfolio and compete against one another. Each paper trading competition lasts a month, and there is a live leaderboard showing the users with the most successful paper portfolios. Working on adding charts and interday trading.

tstock   JANUARY 2022
- Developed an open-source command-line tool for generating stock charts and getting prices of equities in the terminal, using Python. The project got 7,600 downloads in the first three weeks. It currently has 13,000 downloads, and 445 stars on Github.

Retail Trader Sentiment Index   DECEMBER 2020
- I tracked the sentiment of various stocks on reddit with Python and SQLite. About a week before the GameStop short squeeze occurred, I found a signal showing strong retail trader sentiment towards a handful of stocks, including GME. Doubled the money in my brokerage account in 3 days.

Chord Hosting   AUGUST 2021
- Created an online business for hosting Minecraft servers. I made the website and backend, and set up payment processing. Used NextJS, Vercel, Stripe, and PostgreSQL. Set up advertising campaign on various platforms to drive business growth.

Korean Air Roster Download   MARCH 2022
- Korean Air pilots and first officers must go through a tedious process before every flight to download the roster list, report and summary. Using Python and Selenium, I wrote and sold a tool for automating this process.

SKILLS
- Python, Java, Javascript and TypeScript. Javascript libraries include Node.JS, React, Next.JS, React Native, TailwindCSS, and Prisma. Python libraries include Django and NumPy. Experience with writing unit tests and test driven development. Git and Mercurial. PostgreSQL, MySQL, Prisma, and SQLite. AWS, Azure, Vercel, and Heroku.
- Web.3, crypto, and blockchain technologies: ethers.js, Remix, Hardhat, and Solidity. Experience developing on multiple chains.
- Proficient in systems administration, especially Linux. I administrate many Ubuntu and Debian servers running nginx. I administrate my own mail server with Postfix and Dovecot. I run an OpenVPN server off my home router. It also contains custom routing tables for my self-hosted media server, which I run off of an old laptop that I repurposed as a home server.
- Adobe Photoshop and GIMP; Adobe Premiere Pro, After Effects, and Da Vinci Resolve.
- Native proficiency in English and Chinese (Mandarin).
- Learned to program at age 6, have consistently programmed for fun and worked on projects ever since.

EDUCATION
'Iolani School, *Honolulu, HI*
Harvey Mudd College, *Claremont, CA*

AWARDS
- Placed 3rd in USA in the National Economics Challenge; all expenses paid trip to NYC to air live on CNBC; 1st West Regional
- First place in MIT Synthetic Aperture Radar image processing competition
- National Merit Scholarship recipient
- Test scores: ACT 35, AP Bio 5, AP Calc 5, AP Stats 5, AP Physics 5, AP Microecon 5, AP Macroecon 5, AP Comp Sci 5