

Scott Fischer

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Work Experience

Element Science

San Francisco, CA

Software Engineer II,

September 2022 - Present

- Planned and developed a cross platform mobile application that utilizes BLE, webviews, native security features; decreasing future work for enhancements and increasing client base by 45%
 - Created all technical documentation for this project
- Planned, designed, and developed data platform and pipelines to allow cross functional teams to gain insights into the device wear, detect issues, and calculate statistics for FDA study
- Authored enhancements and address defects for the Cloud backend using Python and Postgres for
 - HIPPA regulation, NIST cyber-security practices, and redesign from monolithic to microservice architecture
- Developed enhancements and address defects for both user face and internal facing web portals using Javascript and React, coordinated between 4 different teams
 - Created automation for 2 workflows in internal tools, increasing another team's efficiency
- Create, execute, and document software 5+ verification protocols, unit testing across Python, Dart, and Javascript, and integration testing between entire cloud ecosystem

US Army

Marina, CA

Signal Support Systems Specialist Section Leader

February 2019 - Present

- Supervising, installing, maintaining, and troubleshooting battlefield signal support systems. This includes terminal devices, and satellite communications equipment
 - Performs hands on unit level maintenance and preventative maintenance on communication systems
 - Manages logics of communication equipment that totals hundreds of thousands of dollars
 - Manages and supervised a team of 5 signal corps soldiers to deliver and assist communication to battalion sized elements (over 300 soldiers)
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Certifications

- Secret Security Clearance

Skills

- C/C++
- Python
- Javascript
- React
- HTML/CSS
- SQL
- Git
- Scrum / Agile
- Dart / Flutter
- Documentation
- Basic AWS
- NIST and HIPAA

Education

Bachelors of Science, Computer Engineering

UC Santa Cruz, March 2022

- *Minor in Computer Science*

Personal Projects

Oscilloscope

- Used a Cypress microcontroller with an ADC peripheral in order to measure waveforms from 1kHz to 100kHz
 - Uses GPIO, ADC, and DMA to intake the signal
 - Outputs to an LCD display

Budget/Net Worth Tracker

- Desktop application that can take in csv and pdf credit card statements, parses, and categorizes them using a locally run LLM
 - Created backend server using python to create accounts for users and securely create password for stored data
 - Stores user data encrypted locally in a password protected database using sqlite
- Tracks total savings/spending against budget and saving goals
 - Generates plots and graphs to track usage versus budget
 - Generates plots of stock prices that user selects to track, polling data from stock APIs