

Technical Skills

Python, Rust, Solidity, JavaScript, React, Node, Pandas, NumPy, Matplotlib, Linux, Cryptography, Bitcoin, Ethereum

Awards and Certificates

CA Engineer in Training, Eagle Scout

Work History

Freelance Developer, *January 2020 – Present*

- Audit and review Ethereum smart contracts for compilation, security, and resource issues
- Create one off Python scripts to analyze and process the contents of data files

Resident, Recurse Center *August 2019 – November 2019*

A self-directed, 12 week, educational retreat for computer programmers.

- Led an educational workshop that covered how a Blockchain works and some practical use cases
- Developed an Ethereum Smart Contract that manages an inventory and sends and receives payments
- Implemented a bloom filter in JavaScript

Project Engineer, Underground Construction *June 2017 – July 2019*

- Oversaw the installation of a fire suppression system at the John Wayne International Airport's fuel facility
- Performed monthly financial audits of multi-million dollar construction projects
- Estimated the cost to complete construction projects at various airports across the country

Mechanical Engineering Intern, United Airlines, *September 2015 – December 2016*

- Developed a Visual Basic macro that reduced the manufacturing time of aircraft floor board by over 400%
- Created repair procedures for broken aircraft parts based on the extent and type of damage
- Collaborated with international suppliers to procure and install replacement aircraft parts

Portfolio Projects

- [Real Estate Analysis Tool](#) – A financial tool that analyzes the profitability of a rental property
- [BIP39 Mnemonic Phrase Generator](#) – A random word generator that uses SHA-2 as a source of entropy
- [Music Synthesizer](#) – A midi synthesizer that plays user defined tunes using independent processing threads
- [Census Scrape](#) – Web scraping and data parsing tools to collect, sort, and explore US Census information
- [Rust-Lang Website Addition](#) – A merged PR on Github that removed out of date information from the Rust Language website
- [Pithon](#) – The arcade game Snake, written in PyGame and using the digits in the number Pi as game objects
- [Crypto Kitties Scrape](#) – An asynchronous blockchain explorer that searches for NFT's on the Ethereum Blockchain

Education

San Francisco State University, BS in Mechanical Engineering
December 2016