

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

Blockchain Architect, 3D Room Spaces *April 2020 – Present*

- Developed an ERC721 token management system that creates, updates, and tracks smart contracts
- Created a REST API that provides smart contract methods to a React Native application
- Integrated Web3JS functions into existing React and React Native repositories

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- [Rust-Lang Website Addition](#) – A merged PR on Github that removed out of date information from the Rust Language website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