

Josh Kean

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Programming Languages, Libraries, and Frameworks

Python, JavaScript, React, Solidity, Truffle

Recurse Center

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

August 2019 – Present, Participant

Mnemonic Phrase Generator

- Implemented BIP-39 in Python to create mnemonic phrases and Bitcoin private keys.
- Organized different phases of entropy collection and hashing into a class structure.
- Designed a GUI using tkinter with the ability to generate a new mnemonic phrase and private key, or create a private key from a user provided mnemonic phrase.

Inventory Smart Contract – [Source](#), [Demo](#)

- Designed a smart contract using Solidity that manages a blockchain based inventory.
- Tested Solidity code for memory leaks and run time errors.
- Uploaded compiled Solidity code to the Ropsten Ethereum test network.
- Created a React front-end which was deployed to AWS.

Snake Game

- Created a video game using Python and PyGame.
- Defined parent and child classes to manage variables and functions within different states.
- Wrote Python scripts to auto-generate multi-hundred item dictionaries.
- Implemented keyboard controls to let players control game elements.

Independent Study

- MIT Online Introduction to Algorithms Course.
- Learned JavaScript using a Udemy Course.
- Learned Solidity using Cryptozombies.io.

Experience

Underground Construction, Project Engineer

June 2017 – July 2019

- Managed multi-million dollar jet fuel distribution projects.
- Communicated with clients regarding cost, schedule, and project design changes.
- Performed monthly financial audits of construction projects.

Education

San Francisco State University, BS in Mechanical Engineering

Graduated December 2016

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| • Calculus | • Physics | • Differential Equations |
| • C# Programming | • Digital Signal Analysis | • Automatic Control Systems |