

Technical Skills

Strong: JavaScript, ES6, React, Redux, React Native, WebPack, MongoDB, Node, Express, jQuery, HTML, CSS, Blockchain, Ethereum, Solidity, IPFS, Electron, OOP, TDD, Mocha, Chai, Git

Experienced: WebSockets, Angular, Bootstrap, Photoshop, Gulp, D3, Supertest, Enzyme, Jasmine, SASS, Agile SCRUM

Experience

DeStore | *Lead Engineer* | *A decentralized file storage platform using secure cryptocurrency transactions* 2016

- Architected a distributed P2P file transfer application using blockchain technology and IPFS file transfer where users can store and rent out spare hard drive space through an Electron application
- Provided a guaranteed payment seed and security to users with the use of AES-128 encrypted data chunks, Ethereum blockchain technology, and Ethereum smart contracts written in the Solidity programming language
- Modified and built out web3.eth and IPFS javascript implementation libraries to allow client-side communication with Ethereum smart contracts and IPFS modules
- Conducted P2P File transfer by chunking files using a Merkle DAG and by using IPFS BitSwap protocol to distribute these blocks to a randomized selection of hosts
- Employed TDD by using Tape to ensure smart contract functionality and protect against financial security vulnerabilities

InfoBahn Softworld | *Software Engineering Intern* 2015

- Consulted with Salesforce Team to construct a dashboard to track POD configuration progress for systems engineers
- Optimized UI retrieval performance by 60% by adding pagination and incremental loading
- Implemented multi-parameter search filters to augment the accessibility of API-fetched data
- Followed TDD and Agile SCRUM to continuously integrate user concerns through development

Information Technology Services Learning Environments USC | *Student Technical Assistant* 2015-2016

- Managed USC computer centers and assisted students and faculty with classroom technologies

Projects

Ballr | *NBA Player Statistics Comparison and Analysis Tool* 2016

- Utilized Cheerio.js and Node to create a REST API using player statistics web scraped from basketball-reference.com
- Architected React front-end to compare players based on their in-game statistics using a self-constructed algorithm
- Improved application state management using Redux to handle complex user interactions and enhance error handling
- Conducted robust testing to ensure functionality of redux reducers and React components with Mocha and Enzyme

Command Shift | *Automated nurse duty assigner for the Ivy Creek Healthcare and Wellness Center* 2016

- Exposed REST APIs using MongoDB in order to enable AJAX calls by the React Native counterpart
- Constructed application state using functional programming principles in React to create pure, stateless functions
- Refactored to keep computational logic on server side by ensuring that AJAX calls would be called during initial render
- Implemented testing to prevent user error and ensure the accuracy of the database using Mocha, Chai, and Supertest

Leftovers | *A nutrition application that algorithmically derives a healthy fast food diet from one's remaining macros* 2016

- Architected Angular front-end to display FoodFact API results selected using multiple macronutrient calculations
- Manipulated Google Maps API to allow for multiple asynchronous calls to find the locations of nearby restaurants
- Leveraged continuous integration and hosting of application by deploying to AWS Elastic Beanstalk using HTTPS

Education

Codesmith, *Advanced Software Engineering Immersive Program* 2016

University of Southern California, *Bachelor of Science in Human Biology* 2016

Relevant Coursework:

Data Structures & Object Oriented Design	Web Publishing
Linear Algebra & Linear Differential Equations	Statistics

Interests

Boy Scouts of America: Eagle Scout and mentor to incoming scouts

Dance: Captain of USC Zeher, a competitive USC hip hop fusion dance team

Volunteering: Technical Mentor in community Python class designed to raise money for nonprofit Small Steps Foundation