

SKILLS

Strong: JavaScript, ES6, React.js, Redux, React Native, Webpack, Angular.js, MongoDB, Node.js, Express.js, jQuery, HTML, CSS, SASS, Blockchain, Ethereum, Solidity, IPFS, Electron, OOP, TDD, Mocha, Chai, GitHub

Experienced: Python, Django, D3, Bootstrap, Gulp, Supertest, Enzyme, Jasmine, Tape, Photoshop, 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
- Modified and extended web3.eth and IPFS JavaScript implementation libraries to allow client-side communication with Ethereum smart contracts and IPFS Node.js modules
- Provided a guaranteed payment security to users with the use of AES-128 encrypted data chunks and Ethereum smart contracts written in the Solidity programming language
- Conducted P2P File transfer by chunking files using a Merkle DAG and distributing them 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 JavaScript 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 methodology to continuously integrate user concerns during 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

- Architected React front-end to compare players based on their in-game statistics using a self-constructed algorithm
- Utilized Cheerio.js and Node to create a REST API using player statistics web scraped from basketball-reference.com
- 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 mobile 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 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 2012-2016

Relevant Coursework:

Data Structures & Object Oriented Design
Linear Algebra & Linear Differential Equations

Web Publishing
Statistics

INTERESTS

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

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

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