Matthew Harrison

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PROFILE

Full-stack and blockchain developer with a strong understanding of building real world applications and secure systems.

Skills

- **Languages:** React, HTML5, ES6/7, Javascript, CSS, SASS
- **Framework/Libraries/Tools:** React Router, Redux, React Hooks, Bootstrap, Material UI, Express, Stripe API, Docker, NetCore, Nginx, Let's Encrypt, Linux, Webpack, Styled Components, NPM, Nodejs, Wordpress, Digital Ocean, Heroku, Ejs, Mongodb
- **Version Control:** Git, Github
- **Databases:** Firebase, SQL, Postgresql
- **Ethereum tools:** Web3, Metamask (Rinkeby test network), Remix, Truffle, Ganache CLI, Solidity
- **Bitcoin tools**: Bitcoin Core, Lightning Network(Go), Tor, NBXplorer

Projects

E-commerce Web App - built an enterprise level, scalable React app using javascript, ES6/7, context api, hooks, and redux. Experimented with different tools such as GraphQl, Redux Thunk and Redux Saga and compared tradeoffs when it came to different state management. Set up authentication, security rules and user accounts using firebase. Implemented session storage and persistence to save cart data using redux persist and built form components for login and sign up pages. Set up Stripe API to collect payments and deployed the app to Heroku. The goal of this project was to make good architecture decisions, to write clean code, build reusable components and where it could be easily scaled in production and be cohesive when working with teams.

Digital Currency Website - created a mobile friendly React app that using styled components, media queries, react icons and react hooks to create a beautifully designed UX and easy to use UI with signup/signin components. Used react-router and react scroll for navigation and to implement smooth scroll. Create reusable components and form components for the sign in and sign up page.

Lottery Smart Contract Dapp - built lottery Dapp on the Ethereum blockchain. Designed, tested and deployed smart contracts using Web3, Solidity, Ganache, Remix, Metamask using the Rinkeby test network and Truffle.

Bitcoin Payment Processing *App* - worked with BtcPay server to deploy instance where businesses can accept Bitcoin and alt coin payments. Deployed instance using docker and hosted on Digital Ocean. Manually self hosted a BtcPay Server instance to accept bitcoin transactions using ubuntu 20.04 on a Linux system as a server. Utilized tor, Nginx, Let's Encrypt, Netcore, BtcPay Server, Bitcoin Core, NBXplorer, Lightning Network and iptables to create a secure instance for deployment. Implemented the lightning network for micro-transactions.

Personal *Portfolio Website -* created my portfolio website with HTML5, CSS and Javacript using scroll feature and type text animation.

Work Experience

Nordstrom Service Experience Specialist (IT)

Key Role: Responsible for inventory management and handling and ensuring the safety of sensitive customer information.

Freelance Web Developer - worked with clients on projects and worked with open source software.

Education

University of South Florida - B.Sc., Major Biomedical Sciences **(GPA- 3.8)**