

Christian Paul

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GitHub: github.com/Christian-Paul

Portfolio: christianpaul.xyz

TECHNICAL SKILLS

- **Proficient:** JavaScript (ES6), ReactJS, Redux, D3.js, Webpack, Node.js, Express, MongoDB, SQL, MySQL, SQLite, Git, AWS (S3, EC2, RDS), HighCharts, Socket.IO, jQuery, HTML5, CSS3, Sass, Mocha, Chai
- **Exposure:** Python, Flask, Adobe Photoshop, Adobe Illustrator, Google Analytics

WORK EXPERIENCE

MHNR Energy | Software Engineer | Freeport, NY

2017 - Present

- Engineered refrigerator temperature monitoring platform following single page application design utilizing JavaScript, ReactJS and Redux, improving page load speeds by more than 10X.
- Optimized time to check fridge temperatures by over 500% through configuring Raspberry Pi to read live temperature data and write to MySQL database with Python and AWS RDS.
- Built Node.js and Express RESTful API to send text alerts upon detection of temperatures out of refrigerator range using JavaScript, Twilio API and Socket.IO, projected to save clients over \$400 in replacements per unit.

GlennSunni | Software Engineer | Freeport, NY

2016 - 2016

- Increased user base by more than 20% through creating mobile-first company platform showcasing products and services utilizing JavaScript, HTML5, CSS3 and Sass.
- Enabled client validation and feedback messages using JavaScript and jQuery to ensure contact form values were of valid length and type, minimizing invalid field inputs by over 30%.

SIDE PROJECTS

Free Code Camp | Open Source Contributor | [live](#) | [code](#)

2017

Interactive testing suite to assess student coding projects and provide immediate feedback on quality and correctness.

- Followed scrum agile practices on team of 3 developers to plan and manage open source project, reducing duplicate work, unclear requirements, and blocking tasks, optimizing development time by > 20%.
- Enabled immediate, actionable feedback on projects for 1,000+ engineering students by constructing sample projects, project requirements, and writing tests in Chai and Mocha.
- Exceeded 95% compatibility across modern web browsers through QAing test suite on CodePen and locally across browsers and operating systems.

Pollify | Software Engineer | [live](#) | [code](#)

2016

Voting platform where users can create, edit, and vote on custom polls, viewing results in visualized chart format.

- Minimized bounce rate by 50% through creating responsive UI to provide users with visual feedback and data display in chart form using custom Sass, JavaScript and Chart.js.
- Leveraged client and server side validation with ReactJS, Node.js and Express to enforce data length, type, and content, minimizing duplicate votes and invalid inputs, and reducing server and database traffic by 60%.
- Incorporated user authentication with Twitter OAuth, and protected routes with React-Router to prevent malicious or accidental access to unauthorized features, improving UX and overall engagement.

US Education Choropleth | Software Engineer | [live](#) | [code](#)

2017

Interactive map that illustrates educational attainment level of United States citizens at a county wide level.

- Implemented legends, scales, tooltips, panning, zooming, and responsiveness with D3.js, providing a powerful interface for displaying 5GB of USDA and Census Bureau data seen by 1000+ users with Node.js.

Stock Tracker | Full Stack Developer | [live](#) | [code](#)

2016

Stock visualization system for avid traders to quickly see trading data synchronized across multiple client platforms.

- Parsed 10GB of JSON data with Node.js to populate autocomplete feature, reducing stock adding time by 60%.
- Created server and UI in Node.js, Socket.IO and Quandl API, enabling viewing synchronized data in real-time.

EDUCATION

B.A. Psychology, Stony Brook University

2015