

Joshua Kyle Martin James

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Skills

JavaScript (ES6+), TypeScript, React (Router, Hooks), Node.js, Express, SQL - PostgreSQL, NoSQL - MongoDB, Webpack, HTML, SASS/SCSS, Dependency/Package management, Object-Oriented Programming (OOP), Git Flow, TDD (Jest, Enzyme, Puppeteer, Supertest), Redux, Electron, Material-UI, Docker, AWS (S3, EC2, EB, RDS), Containerization, Babel, Axios, Agile/Scrum methodology

Experience

Software Engineer at - Chronos - Open Source Network and Health Monitoring Product - facilitated by OSLabs **2022-present**

- ❖ Migrated codebase to TypeScript to identify pre-compilation errors which would enhance future development experiences by reducing error logs and creating optimal productivity and efficiency.
- ❖ Fetched metadata on Kubernetes clusters through Prometheus which expanded Chronos' monitoring capabilities beyond microservices, Kafka, and Docker, while maintaining querying efficiency.
- ❖ Utilized Jest and React Testing Library to seamlessly release new features with Test-Driven-Development, reducing errors for a better quality of the final product.
- ❖ Employed Node.js package manager to audit months of unhandled technical debt by auditing all dependencies, and removing or updating packages, resulting in a substantially lighter application with faster compilation and hot-module-reloading.
- ❖ Updated Chronos' Electron application using Node Package Manager in order for the product to have compatibility with any processor option, including ARM-64 Apple "M" architecture which it did not have the ability previously.

JobTracker - Open Source Interview Organization Tool for Software Engineers **2022**

- ❖ Constructed an Express server in a Node.js environment to efficiently organize routes by chaining modular middleware functions to handle HTTP requests and to establish a modular codebase for developers to debug more easily and with better readability.
- ❖ Employed Redux and the Redux developer tools to centralize state management for React components based on the size of this application and the number of nested elements.
- ❖ Implemented React container pattern, creating reusable components to easily maintain and uniformize the codebase for search engine optimization while upholding the DRY principle.

Crisp Garments - Open Source Specialized E-Commerce Store **2022**

- ❖ Employed React useContext state management to pass data from parent to children nested deep down the component tree directly, instead of passing through a chain of props for more readable and less verbose code based on the size of the application.
- ❖ Harnessed Axios to make asynchronous HTTP requests from Node.js in order to support the Promise API that is native to JavaScript (ES6+) while automatically stringifying data for seamless integration into React components.
- ❖ Incorporated GitHub Organization, improving multiple feature developments for seamless merging and eliminating conflicts for optimal productivity when collaborating with multiple developers on a single project.

DGMU - Open Source Social Platform for Localized Enthusiasts **2022**

- ❖ Utilized React Router to enable seamless user experience with conditional rendering of components and optimize rendering performance with minimal network requests in a SPA.
 - ❖ Architected NoSQL database, utilizing non-relational schemas in order to fetch data at a faster rate through denormalization to optimize performant database access while maintaining the ability to have flexible data modeling and ease of adding new data.
 - ❖ Built application with webpack for future scale, maintainability, and faster load times by writing configuration to utilize hot-module-reloading, and ES6+ transpilation for developer packages.
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Public Talks/Publications

- ❖ Educated over sixty Software Engineers by delivering sponsored *Tech Talk* on "Containers and Containerization".
 - ❖ Published a *Medium* article on OSLabs' Chronos product which iterated the importance of monitoring application health metrics.
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Education

Northern Arizona University B.F.A
Codesmith / Advanced Residency for Software Engineering

Interests

Hiking Oregon's National Forests and State Parks, taking advantage of living in the beautiful Pacific Northwest
Metal-smithing custom jewelry fabrications, castings, and lapidary work for a creative outlet and community integration