Jerald Stephenson | Software Engineer

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TECHNICAL SKILLS | HTML, CSS, JavaScript (ES6+), TypeScript, Node.js, Express.js, React (Hooks, Router), Redux, Git, SQL (PostgreSQL), NoSQL (MongoDB), GraphQL, Jest, Webpack, Native iOS (Swift, SwiftUI), Mongoose, WebSocket, Authentication (JWT, Bcrypt), React Testing Library, Cypress, WebRTC, Server-Sent Events (SSE), styled-components, Docker, Kubernetes

EXPERIENCE

GraphErrQL | Software Engineer | link | 2021 – 2022

o   Developed a feature that harnessed Server-Sent Events (SSE) to enable end-to-end GraphQL testing directly from a browser environment and provide the implementing developer with instant feedback on query results, errors, and error assistance.

o   Incorporated a GraphQL parsing code editor feature via CodeMirror, providing developers with the ability to quickly validate queries against their schema, ensuring the correctness of syntax and implementation of GraphQL queries into their frontend.

o   Architected Express.js middleware as an application launch point for GraphErrQL, allowing quick and simplified access to the GraphErrQL IDE and its tools that assist developers in utilizing GraphQL within their local developer environment.

o   Capitalized on React's reconciliation engine and its Virtual DOM which optimizes DOM manipulation and rendering, providing users with a performant and pleasant user experience.

o   Styled React components using the styled-components library to thread consistency with React's design principle of separation via components while leveraging the familiar syntax of CSS to work efficiently and confidently.

o   Abstracted away complexities, condensing the core functionalities into minimal amounts of implementation code, to facilitate low ramp-up time for developers incorporating GraphErrQL as a Node.js npm package.

o   GraphErrQL was developed and maintained under the tech accelerator OSLabs (opensourcelabs.io).

OPEN SOURCE PROJECTS

Dev-Helpr | A community hub for developers which facilitates learning and teaching

o   Implemented a RESTful architecture using Node.js with Express.js, incorporating the middleware design pattern in combination with JWTs and Bcrypt to encrypt user login data, optimizing data flow between secure routes and endpoints which created an authentication and authorization system that end users could be confident in.

o   Generated a PostgreSQL database to store relational user data, tickets, and their respective states, while leveraging its ACID compliance, ensuring the reliability and correctness of information and transactions.

o   Integrated WebSocket's bidirectional communication protocol between the browser and the server to create responsive chat rooms using event-driven server responses, negating the need to poll the server for updates.

o   Employed Redux to provide access to a singular source of state for referencing and management within a complex interconnected application, as well as mapping a concise workflow template enforced by Redux's inherent design patterns.

The-Hop | Event searching & bookmarking app

o   Utilized Jest, React Testing Library, and Cypress in conjunction for unit, integration, and end-to-end testing to ensure the non-breaking nature of changes to the codebase, as well as the automation of ensuring a desired typical user experience, in a continuous development cycle.

BigBrain Z-Strain | A local multiplayer macOS game

o   Leveraged Swift and SwiftUI to create a native macOS application, following Apple's Human Interface Guidelines to create a fast and enjoyable player experience.

o   Implemented OOP paradigm with the MVC pattern to enforce separation of concerns, allowing easier maintenance and updating of our application with defined object roles as well as promoting reusability and extensibility of those objects.

EDUCATION

Modesto Junior College | Associates Degree of Science **(AS), ADN** | 2013

TALKS | **Single Sprout Speaker Series** | "WebRTC and Peer Connections" | 2022

INTERESTS | World traveler | Self-improvement advocate & student | Coffee enthusiast & overspender on home-barista equipment