

Technical Skills

Languages & Frameworks: HTML5, CSS3, JavaScript (ES6), TypeScript, React.js, Redux, Vue.js, Node.js, Express.js
Technologies: NoSQL (MongoDB), SQL (PostgreSQL), Jest, React Testing Library, RESTful APIs, GraphQL, Version Control (Git/Github), Webpack, Sass, SPA, Figma, Material UI, Chart.js, D3.js, Axios, Tailwind CSS

Experience

Vueable Query - *open source DevTools that reports on Tanstack query activities & performance metrics for Vue apps*

Mar 2023 - current

- Built with Vue 3 due to its first-class support for TypeScript/Sass and for its reactivity feature, which enables efficient rendering of components by automatically tracking and updating data changes in the app's state
- Modularized the entire component lifecycle with Vue's Composition API, resulting in a reusable and testable frontend architecture with over 85% unit test coverage using Jest
- Improved code efficiency and readability by setting up a centralized store to track query history using Pinia, the official Vue state management library and framework, which eliminates the need for prop drilling
- Enhanced UX/UI by creating a timeline to visualize query start time, end time, and sequence using D3 for easy future scaling and customization, which allows for dynamic updates and interactive features
- Used D3 in combination with Vue and Pinia makes the constant recalculations using getters easier than Redux
- Ensured type safety across the API contract and core functionality by integrating Chrome Extension API with Typescript & Vue, boosting overall DX and deployment confidence

Projects

Budget Beacon - *service that allows users to manage income, budget, & expenses*

- Refined DX and UI by developing styled components with Material UI, as it integrates seamlessly with React, allowing custom styling in the same component
- Enriched UX by illustrating the relationship between user's income, budget, & expenses using Chart.js for its responsive and interactive yet easy to use charts
- Optimized security and scalability by storing users' login information and tracking associated financial data using PostgreSQL, guaranteeing transactional operations that are ACID compliant and enabling concurrent connections from numerous clients

Spindr 2.0 - *app that gamifies the process of finding new music*

- Upgraded rendering performance and enabled seamless transitions between views by integrating React Router to manage client-side routing & navigation in the application, eliminating the need for full page reloads
- Streamlined code reusability by creating interactive components with React due to its declarative and efficient approach for building complex UIs and its optimization of performance through virtual DOM updates
- Modularized backend logic through the middleware design pattern and features that Express.js and RESTful requests provide

Pantry-Pal - *interface that displays recipes, keeps track of ingredients, & constructs a shopping list*

- Simplified the debugging process by creating reusable components using React for its adherence to one-way data flow and utilizing React Hooks to enable efficient state management
- Supported the many to many nature of the relationship between users, recipes, ingredients, & shopping lists by using a PostgreSQL database and took advantage of its strict schema to allow for reliable data storage and retrieval
- Enabled effective handling of concurrent requests/operations with node for its event-driven architecture
- Ensured secure access to user data and sensitive information even across different domains/services by implementing authentication and authorization mechanisms using JWT

Education

- Codesmith (Advanced Engineering Residency) 2023
- University of Nevada, Las Vegas - Psychology, B.A. 2013 - 2017

Talks/Publications

- Tech Talk Speaker Series (sponsored by Jeeny & Bractlet) - GraphQL 2023