Michael Dunnmon

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Skills

TypeScript, JavaScript (ES6+), React (Hooks, Router), Redux & Redux Toolkit, Next.js, Docker, AWS (Elastic Beanstalk, EC2, Elastic Container Registry, Certificate Manager), Node, Express, SQL (PostgreSQL, MySQL), NoSQL (MongoDB), Mongoose, OAuth 2.0, RESTful APIs, API Design and Development, WebSocket, webpack, Vite, Jest, Cypress, UI/UX Design, HTML/CSS/SASS/SCSS, Tailwind CSS, MUI, Git, CI/CD Pipelines, DevOps, Agile, Web Accessibility

Experience

Software Engineer | *ReacType*   **February 2022 - Present**

- Led the migration to Redux Toolkit and utilized its slice construct to encapsulate state logic, effectively resolving state fragmentation issues, enhanced debugging capabilities with Redux Developer Tools, and increased developer velocity by 20%.
- Drove a substantial increase in TypeScript usage from 30% to 95%, strengthening type safety, enhancing code readability, and reducing runtime errors across the codebase.
- Containerized with Docker using a multi-stage approach, reducing image size by over 50% and enabling an accelerated, more reliable deployment process.
- Developed a collaboration room feature using WebSockets to facilitate bidirectional, low-latency communication over a single TCP connection, enhancing real-time user collaboration for up to 100 users simultaneously.
- Introduced a feature to dynamically switch between Tailwind CSS and inline CSS for custom React component prototyping, providing users with on-the-fly styling choice and enhanced customization in live code output.
- Transitioned from an Electron application to a fully deployed web application using AWS, expanding reach to a global audience across 20+ countries and improving performance while maintaining security.
- Increased overall test coverage by 25% through the development of unit testing with Jest for the new Redux Toolkit implementation, consequently improving system reliability and expediting development cycles.
- Integrated Google and GitHub OAuth 2.0 for user authentication, leveraging secure third-party protocols. This provided reliable credential management, preventing unauthorized access and enhancing overall system security.
- Managed technical debt by updating crucial dependencies like React and Material-UI, eliminating use of '--legacy-peer-deps' and outdated Node v16, thereby enhancing code maintainability and new contributor onboarding.
- Product developed under tech accelerator OS Labs (opensourcelabs.io).

Senior Underwriter | U.S. Bank / Guild Mortgage   **2015 – 2022**

- Devised and implemented an automated income calculation system utilizing advanced Excel features like macros, conditional formatting, and nested IF statements. This method streamlined the risk assessment process, efficiently managing a pipeline surpassing $364 million with 99.6% accuracy.

Projects

Seasoning | *Customizable Recipe Book*

- Implemented React's component-based architecture, leveraging the virtual DOM's diffing for efficient re-renders. The shift to unidirectional data flow simplified state management, enhancing front-end scalability and performance.
- Engineered an Express backend, organizing over 15 modular routes and controllers. Used Express's middleware for efficient error handling and request processing, supporting application scalability and maintenance.
- Connected MongoDB with Mongoose in an Express application for handling complex data structures, leveraging NoSQL's schema flexibility to cater to 1,000s of unpredictable variations of user-input data.

Codehort | *Interactive Participation Tracker*

- Leveraged Tailwind CSS for its low-level utility classes, expediting responsive UI design for more than 20 unique components, optimizing both mobile and desktop user experiences.
- Employed PostgreSQL's ACID compliance to model over 10 tables of structured data for the application, capitalizing on SQL's relational schemas to guarantee data consistency and integrity, crucial for accurate tracking and reporting.

Education

- Bachelor of Science in Finance | Minnesota State University

Talks/Interests

- "Apache Kafka," JEENY + Bractlet Tech Talk Series, 2023.
- Exploring new recipes, diving into new books, roaming through the outdoors, digging for hidden musical treasures