

Keidy Wuang

Software Engineer

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Technical Skills and Technologies

Languages: JavaScript | TypeScript | HTML5 | CSS/Sass | SQL | Python | C

Technologies: React | Redux | React Native | Node.js | Express | PostgreSQL | NoSQL (MongoDB) | Next.js | Webpack | Git/Github Flow | authentication (OAuth2) | Material-UI | Tailwind | DevOps (CI/CD, Agile/SCRUM) | Docker | AWS (EC2, Elastic Beanstalk)

Testing: Jest | Puppeteer | React-Testing-Library | SuperTest

Experience

Frontend Engineer - ADVANTAGE HOSPICE PROVIDERS INC.

Dec 2023 - present

- Developed a React single-page application (SPA) by modularizing code into reusable components, streamlining codebase maintenance and providing a foundation for future scalability
- Utilized Material-UI to create a user interface with responsive design, maintaining consistent styling across different devices and providing an inclusive user experience by leveraging accessibility features such as keyboard navigation
- Migrated codebase to NextJS, enabling server-side-rendering (SSR) resulting in improved SEO and reducing initial page load time by 33%

Software Engineer - FEOFig - Open-Source React Optimization Library

July 2023 - Dec 2023

- Partnered with tech accelerator OSLabs to launch a npm library bundling front-end optimization techniques into a flexible package, simplifying the frontend development process while reducing file sizes by up to 25%
- Leveraged React's component-based architecture to create a wrapper that encapsulates components and applies optimizations to elements, while exploiting the virtual DOM and diffing algorithm for efficient DOM renders
- Utilized Puppeteer's headless browser interfaced with the Chrome Devtools Protocol to automate benchmarking under various connection speeds resulting in 40% time saved compared to manual benchmarking
- Integrated Intersection Observer API to detect onscreen images and animations for lazy loading and pausing, reducing network and CPU usage on average by 53% and improving accessibility for slower networks and older user devices
- Engineered using TypeScript to create a more robust codebase by taking advantage of static typing, reducing technical debt by allowing potential errors to be visualized early at compile-time rather than runtime
- Composed comprehensive documentation detailing functionality and configuration of library's features

Projects

WINSET- *Mock Sports Betting Application* | React, Redux, Node.js, Express, PostgreSQL

- Efficiently handled RESTful HTTP requests using Node.js and Express by utilizing the middleware design pattern to employ controllers for handling requests to specific endpoints, and error handling fallbacks to quickly identify bugs
- Integrated ACID compliant database using PostgreSQL to store relational data on teams and players following strict schemas, while ensuring integrity of data transactions

FSA - *Optimal Flexible Spending Account Calculator* | React, Tailwind CSS, Node.js, Express, PostgreSQL, Jest

- Employed test-driven development (TDD) using Jest for unit testing functions, React Testing Library for React components, and Supertest for HTTP server endpoints, to define functional expectations and guarantee code integrity
- Enhanced security by enforcing Bcrypt's salt rounds and one-way hashing function on user passwords, deterring brute force attacks and reducing vulnerability to rainbow tables
- Generated tamper-proof signed JSON Web Tokens (JWT) for users, protecting against cross-site request forgery (CSRF) attacks, and stored tokens in secure cookies to persist user login sessions

SQUARE UP - *Sparring Matchmaking Platform* | React, Redux, Node.js, Express, MongoDB

- Established Redux store to extract React component states into a single source of truth for state management while upholding the unidirectional data flow schema of Flux architecture
- Constructed MongoDB database to store user info, focusing on high data availability and ease of horizontal scaling

Tech Talk | Kubernetes and Docker Swarms - Bractlet Sponsored Software Engineering Speech Series

2023

Education | University of California, Riverside - *Bachelor of Science*

Interests | Long-distance running | LoL esports | International travel to Japan, China | Weightlifting | PC building | OSRS | Formula 1