Ari Shoham · Software Engineer

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Technical Skills

Strong: Javascript (ES6+) | Typescript | React (Native, Hooks, Router, Context) | Redux (Toolkit, Thunks) | Material-UI | Framer Motion | Recharts | HTML5 | CSS (Modules) | SASS | jQuery | Google Lighthouse | SQL (PostgreSQL) | NoSQL (MongoDB) | Nodejs | Express | TDD (Jest, React Testing Library, SuperTest) | Bcrypt | JWTs | OAuth | RESTful APIs | NEXTjs | Webpack | Git (Hooks) | Github | Arduino

Experienced: Puppeteer | Docker | TravisCI | Machine Learning | Python | Pandas | GraphQL | Matlab | VBA | CAD | AWS

Experience

VANTAGE | *OPEN-SOURCE OPTIMIZATION TOOL FOR DEVELOPING IN NEXTJS* - 2022

- Implemented React to build a SPA with reusable components to maximize maintainability and modularity.
- Utilized Redux Toolkit to control state management throughout a deeply interconnected application, mapping functionality to components on all hierarchical levels, employing Redux hooks to write clear state logic.
- Unified a thematic design of elements imported from a component library alongside custom-engineered components incorporating best practices in responsive UI / UX design with modern CSS / SCSS syntax.
- Visualized metrics with Recharts, providing customizable and reusable charts in a readable, user-focused way.
- Applied TDD using Jest and React Testing Library to build unit and integration tests utilizing mock functions and shallow rendering to ensure codebase stability, maintainability and clarity for smoother development
- Harnessed the Google Lighthouse SDK to create a silent Git integration script to enable the collection of key site performance metrics for the entire build in the background during development for an uninterrupted workflow.
- Leveraged Typescript's ability to self-document, enforce strong static typing, and define custom data structures leading to strengthened code integrity, reduction of runtime errors and improved collaboration between the team.

ENGINEER | BMW MANUFACTURING, HAGEN & COMPANY, BWH HOSPITAL – 2016-2021

- Automated the generation and distribution of internal reports to key stakeholders by writing VBA scripts.
- Developed, designed, prototyped, and printed resin 3D models of anatomical, simulation-based task trainers.

Open Source Contributions

NUTRITIONIX | HEALTH APP FOR MONITORING NUTRITIONAL INTAKE BY MEAL

- Utilized React/Redux flux architecture to minimize complexity and maintain a consistent code layout while promoting further scalability and employing redux thunk middleware to enable asynchronous operations.
- Developed a noSQL database to store nutrition information specific to each user allowing for rapid development, future horizontal scalability, fast data access, high availability, and flexible schema generations.
- Handled internal routing using React Router v6 to ensure fast conditional rendering with minimal network requests.

GITGOOD | SOFTWARE ENGINEERING-FOCUSED LEARNING AND PRODUCTIVITY TOOL

- Implemented OAuth through Github and persistent JWT cookies for a secure & seamless authentication process.
- Utilized SuperTest with Jest assertions to thoroughly test every API endpoint to ensure a robust server architecture.

DRIVER REPORT CARD

- Used Node and Express to structure a RESTful service with custom middleware flow between routes that allows for requests to multiple endpoints while ensuring the end user's data is secure with Bcrypt and JWTs.
- Utilized PostgreSQL's relational framework for storing data as well as its ACID compliance for database architecture and workflow, data integrity, and fault-tolerant environment for data management and scalability.
- Employed Webpack for faster load times by configuring a proxy server to leverage hot module reloading, ES6+ transpilation for developer packages, and minification and uglification features to decrease final bundle size.

Education

CLEMSON UNIVERSITY, SC – MECHANICAL ENGINEERING – 2019

Coursework: Matlab, Solidworks, Single & Multivariable Calculus

Talks & Publications

Server Side Rendering | Single Sprout Tech Talk

Interests & Hobbies

Skiing & Snowboarding | Scuba diving | Hiking with my black lab | Enjoying an IPA | Making sourdough from scratch