

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 · Next.js · HTML5 · CSS3 (Modules) · SASS · SQL (PostgreSQL) · NoSQL (MongoDB, Mongoose) · Node.js · Express · RESTful APIs · Postman · TDD (Jest, React Testing Library, SuperTest, Playwright) · Bcrypt · JWTs · OAuth · ESLint · Git (Hooks) · Github (Actions) · Webpack · Google Lighthouse · GraphQL · NPM
Experienced: Docker · TravisCI · Python · Pandas · Arduino · Matlab · VBA · CAD · AWS (EC2, S3, ECS, Lambda)

Experience

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

- Harnessed the Google Lighthouse SDK to create an NPM package that collects key web vitals and performance metrics in the background, with every Git commit, for an uninterrupted workflow during development.
- Took advantage of React's reconciliation process and high performance, along with custom hooks, to effectively render separate components to facilitate modular SPA development using reusable components.
- Utilized React/Redux flux architecture using the observer-consumer pattern, subscribing components to a higher-order store to update and receive UI events to minimize complexity and maintain a scalable code layout.
- Displayed key web metrics with Recharts, providing modular graphs with a focus on readability and accessibility.
- Applied 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.
- Utilized Next.js for its server side rendering to enhance load times and improve search engine optimization.
- Constructed a responsive, adaptive, and performant GUI that incorporated best practices in UI / UX design.
- Unified a thematic design of elements with modern CSS / SCSS and custom modified MaterialUI components.
- Leveraged Typescript's ability to self-document, enforce strong static typing, and defined custom interfaces leading to strengthened code integrity, reduction of runtime errors and improved collaboration between the team.
- Implemented a CI / CD pipeline to automate testing and deployments, minimizing errors and development time.
- Product developed under tech accelerator OS Labs.

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

- Deployed scripts that automated the generation and distribution of internal reports to key stakeholders at BMW.
- Developed, designed, prototyped, and printed resin 3D models of anatomical, simulation-based task trainers.

Open Source Contributions

GOODWATCH | MOVIE LIBRARY PLATFORM

- Built a GraphQL server with Apollo to interface with an external RESTful API and SQL database with minimal network requests and strongly typed schemas for faster full stack integration that is much less error prone.
- Configured Webpack to effectively bundle, minify & uglify the project for faster compilation and render speeds.

NUTRITION.IX | HEALTH APP FOR MONITORING NUTRITIONAL INTAKE BY MEAL

- Developed a non-relational database to store user specific nutrition information, allowing for rapid development.
- Incorporated React Router v6 to ensure fast conditional client side routing while minimizing network requests.
- Incorporated OAuth 2.0 with persistent cookies to promote a secure and convenient authorization experience.

DRIVER REPORT CARD | ONLINE DRIVER REVIEW PLATFORM

- Designed RESTful server architecture leveraging Node.js and Express's middleware design pattern that allowed for requests to multiple endpoints while ensuring the end user's data was secure with Bcrypt and JWT sessions.
- Constructed a relational database and perform CRUD actions using parameterized queries, utilizing PostgreSQL to enable concurrent connections from multiple clients and store information while maintaining ACID compliance.

Education

CLEMSON UNIVERSITY, SC – MECHANICAL ENGINEERING

Coursework: Matlab, Solidworks, Single & Multivariable Calculus

Talks & Publications

SERVER SIDE RENDERING | Single Sprout Tech Talk

Interests & Hobbies

Skiing the Rockies | Pulling the perfect espresso shot | Backpacking with my Labrador | Making sourdough from scratch