

Joel Robert Hench

Full Stack Software Engineer

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TOOLS AND LIBRARIES

- **Front-End:** JavaScript, React, HTML5, CSS3, Sass, MUI, Bootstrap
- **Back-End:** Node.js, Express.js, MySQL2.0, PostgreSQL, MongoDB, ArangoDB, Socket.io
- **Deployment:** AWS, NGINX, k6, Loader.io
- **Dev Tools:** Git, NPM, ESLint, Jest, Nodemon, React Testing Library, Mocha, Chai, Command Line Interface, Postman, Babel, Webpack, Test Driven Development (TDD), Linux (Ubuntu)

PROFESSIONAL EXPERIENCE

United Software Corporation | UI Developer | *React, Redux, Node.js, HTML5, Bootstrap* | 2022 - present

- Implement front-end user interface design by using React and Redux.
- Create a view layer with different components. Button, drop-down menu, collapse menu, search.
- Use Bootstrap for the Responsive design of the application.
- Utilize HTML5 form validation and attributes restrictions to validate inputs.
- Gather required data from the backend using XML request.
- Participate in designing and developing models, algorithms simulations, and structured programming.
- Attend sprint planning and scrum meeting.

APPLICATIONS

Back End Software Engineer - Product API, *Express, Node.js, ArangoDB, NGINX* | 2022

- Designed and deployed a scalable API service for server and database, creating and benchmarking database schemas in PostgreSQL and ArangoDB. Selected ArangoDB.
- Interacted with ArangoDB through the shell, web-server, and Node.js.
- Configured an NGINX load balancer to manage 3 upstream servers.
- Simulated spikes and high traffic using k6 and Loader.io. Optimized performance achieving latency < 2000ms and error rate < 1% at 2500 rps.

Front End Software Engineer - Falco Commerce, *React, Node.js, Express, Babel, Webpack, Sass, AWS* | 2022

- Designed and deployed an e-commerce app, including Purchase Options, Reviews, and Related Items modals / micro-services.
- Dynamically displayed a ratings distribution and 5-Star viewer to reflect real time server data with vanilla HTML5/CSS
- Implemented a review list with several inputs handling upvotes, reporting, and sorting options
- Deployed the app to AWS on an Ubuntu EC2 instance, managed the instance state and IP Address routing.

Front End Software Engineer - Social Game Night, *React, Babel, Webpack, MUI, Node.js, Socket.io* | 2022

- Created an "Apples to Apples" social game app with support for multiple users and chat.
- Managed and synchronized active users, avatars, and captions across all players. Designed host disconnect logic to pass on host role to next user using Socket.io.
- Created a chat component with integrated Twitch emotives. Wrote a messenger bot with notifications for chat history, player connect, and player disconnect events.

Hack Reactor | Certificate in Advanced Software Engineering | 2022
University of California, Berkeley | B.A. | 2013-17