

Forest Welch

San Francisco, CA · forest.r.welch@gmail.com · (415) 375-5162 · [LinkedIn](#) · [Github](#)

Fullstack Software Engineer with over 4 years of experience in React and Node.js. My strong communication skills enable me to collaborate effectively across disciplines and deliver high-quality solutions. I am committed to continuous growth and have a passion for using technology to make a positive impact, particularly in the mental health sector.

EXPERIENCE

BuildVision

Software Engineer (Contract)

San Francisco, CA
November 2023 - April 2024

- Spearheaded Next.js UI development for admin tools and customer views as BuildVision's second engineer.
- Leveraged RTK Query's cache tags to optimize data management and API interactions, building reusable Table and Pagination components with result caching, search filters, and inline editing.
- Established a comprehensive design system using NextUI, creating reusable components and standardizing styles, such as a file folder viewer with recursive nesting and state management.

Autodesk (Formerly BuildingConnected)

Software Engineer

San Francisco, CA
August 2018 - January 2022

- Authored an org-wide React UI component library, reducing library size by ~30% and doubling functionality.
 - Unified disparate component libraries and JSS-in-CSS with styled-components to simplify UI development.
 - Developed common components including action menus, tables, and flyouts.
 - Documented props, and usage, and design principles, accessible at design.buildingconnected.com.
- Led a localization and internationalization initiative, expanding into Oceania and doubling the user base.
 - Implemented a centralized translation system using react-i18next, with hierarchical locale determination.
 - Injected locale into server-side HTML templates for email and printer services, ensuring consistent localization.
- Rebuilt internal tools from the ground up, saving the Customer Success team 20 hours per week.
 - Converted UI from Angular to React for better performance and added enhanced search and company merging.
 - Fixed a critical date picker bug, saving several million dollars by preventing contract expiration issues.
- Led the estimated cost feature development, empowering contractors' decisions (used >5000 times weekly).
 - Crafted a comprehensive design document detailing approaches, requirements, and implementation plans.
 - Built reusable EstimatedCost component and memoized calculations with Redux's reselect for performance.
- Mentored two entry-level engineers and an intern, providing structured onboarding sessions, conducting pair programming, and offering detailed, constructive feedback during PR reviews.
- Improved team morale and mitigated burnout during COVID by organizing and hosting bi-weekly yoga and meditation Zoom calls, along with weekly pair programming and gaming sessions.
- Managed the frontend interview process, conducting interviews and assisting candidates during onsite. Key contributor to the successful hire of 5 engineers and 2 interns, and launched our first satellite office in Toronto.

EDUCATION

University of Pennsylvania

B.A. in Linguistics, minor in Deaf Studies

Philadelphia, PA
2012 - 2016

App Academy

Fullstack Engineering Certificate

San Francisco, CA
2018

SKILLS

Proficient: JavaScript, React, Next.js, Redux, Node.js, MongoDB, Git, CircleCI
Familiar: Typescript, React Native, Angular, PostgreSQL, Docker, Heroku, AWS, Elastic Cloud, Redis, Mongoose, GraphQL, Jest, Cypress, Ruby on Rails, Webpack, jQuery