

Forest Welch



Software Engineer

I build user-friendly apps to make the digital world more intuitive and beautiful.

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EXPERIENCE

BuildVision *Software Engineer* 2023 - 2024

- Drove the development of initial views using Next.js, Nest.js, and Postgres as the second engineer hired. Successfully built version 1, enabling an on-time launch and securing pre-seed investment.
- Replaced internal querying system with RTK Query, optimizing data retrieval with features such as caching, pagination, and search filters, reducing API load times by 40%.
- Built a component specification tool to streamline data entry, saving the CEO 10 hours weekly.

Autodesk *Senior Software Engineer I* 2020 - 2022

- Spearheaded an org-wide localization initiative, doubling the user base and expanding the app globally. Designed a centralized i18n system and organized workshops to ensure consistent string localization.
- Implemented a user event tracking system and used LaunchDarkly A/B testing with Snowflake analytics dashboards to optimize the onboarding flow, resulting in a 15% increase in successful registrations.
- Streamlined the frontend CircleCI pipeline, reducing build and deployment times by 50%.

BuildingConnected *Software Engineer II* 2018 - 2020

- Overhauled the React component library, reducing size by 30% and increasing functionality by 50%. Unified and standardized typography and documented best practices at design.buildingconnected.com.
- Migrated internal tools from Angular to React, enhancing performance and usability. Saved 20 hours weekly for the Customer Success team and safeguarded \$1.5M in contracts.
- Owned the development of the estimated cost feature, a bid leveling tool used over 5,000 times weekly.

PROJECTS

Visio *Next.js, TypeScript, TailwindCSS, Express, MongoDB*

AI-powered platform integrating DALL-E for generating and sharing images on a vibrant community board.

LiveDocs *Next.js, TypeScript, TailwindCSS, Shadcn, Clerk*

Collaborative rich-text editor featuring Liveblocks for real-time editing, commenting, and document sharing.

Bop *React, Redux, Ruby on Rails, Express, Postgres*

Spotify-inspired platform for music discovery, with playlist creation, artist following, and real-time search.

EDUCATION

App Academy *Fullstack Engineering* 2018

University of Pennsylvania *B.A. in Linguistics, Deaf Studies* 2012 - 2016

SKILLS

Proficient: JavaScript, React, Next.js, Redux, Node.js, MongoDB, Git, CircleCI, LaunchDarkly
Familiar: TypeScript, React Native, Nest.js, Postgres, Docker, Heroku, AWS, Elastic Cloud, Snowflake, Redis, Mongoose, GraphQL, Jest, Cypress, Rails, Angular, Webpack, jQuery