Josh Wootonn

A product engineer looking to build the next creative tooling innovation - <u>github</u> - <u>twitter</u> - <u>website</u>

Product Engineer — *Makeswift*   Jan 2022 - Now

Makeswift is a customizable website builder. You can map React component props to controls in Makeswift to visually edit a Next.js site. It was acquired by Bigcommerce in Nov 2023. I was the third employee.

- Created the latest `RichText` control, upgrading <u>Slate.js</u> by 50 pre-v1 minor versions, and rewriting our list rich text plugin
- Created the `Style`, `Group`, and `IconRadioGroup` controls
- Created the <u>Smartling</u> integration that translates pages while preserving rich text styling
- <u>Created the cmdk URL bar</u> for navigating between pages and locales
- Created the layers panel, which mirrors hover and selection indication and syncs scroll position
- <u>Wrote a CI action</u> that tracks bundle size across PRs and used it to decrease route bundles by 50 to 70%
- Led the upgrade of our file manager with multi-select, inline editing, fuzzy search, and drag selection
- Led the integration with <u>Schematic</u> for package management and diverse usage metering
- Led the migrations to Github, to Nest.js GraphQL, to GraphQL.tada, and to Next.js App router

When I didn't understand something, I researched it, wrote about it until I understood it well enough to explain it, and then back-populated those findings into our product. Here are the resulting blogs on <u>performant sidebar animations</u>, <u>multi-step popovers</u>, and <u>drag selection</u>.

Frontend Engineer — *Clearcover*   Jan 2021 - Jan 2022

Clearcover is a late-stage insurance startup in Chicago. I worked on the self-service signup @ <u>app.clearcover.com</u>.

Software Engineer — *Digital Diagnostics*   Sep 2017 - Jan 2021

Digital Diagnostics had the first FDA-approved diagnostic software. I worked on the team that brought this to market.

- Prototyped a modern version of IDx-DR, which went on to become our primary product offering
- Iterated designs in Figma and implemented these in Electron / React
- Mentored three engineers and spread ownership on a backend-heavy team

Side projects

<u>42colors</u> — *Pixel art editor*   Sep 2024 - Now

- Created a pixel art editor in Elixir, Canvas API, and PostgreSQL
- <u>Created a file system</u> binary cache so that pixels on the infinite canvas load in under 200ms
- Implemented cursor relative zooming that works for mice and trackpads
- Added real-time collaboration with Phoenix channels

<u>Type the Word</u> — *Typing practice tool*   Oct 2023 - Now

- Created a typing practice tool with UX similar to monkeytype.com for typing through the Bible
- Grew the community to *450 users* who have typed *200k total verses*
- Maintained <u>a monthly newsletter</u> connecting users, announcing new features, and sharing bug fixes
- <u>Rewrote next-theme</u> to support custom dark and light themes while still supporting a system option
- <u>Created the UX</u> <u>for tracking your progress</u>, which 2 users have used to type the entire Bible (31k verses)

<u>Illustration</u> — *Isometric scenes*   Oct 2021 - July 2022

- Spent 250+ hours illustrating 40+ scenes from my life and imagination

<u>Time Track</u> — *Time keeping tool*   Mar 2016 - Apr 2024

- Created the time tracking app that 100 employees use every day at All American Concrete Inc
- Developed an initial version with Qt, C++, and MySQL that was used from 2016 to 2018
- Created a second version using Electron, React, Node, and MySQL for better analytics and UX

Education

University of Iowa — *Computer Engineering*   Aug 2015 - May 2019