

# Devin Rhode, Senior TypeScript Engineer

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## Skills

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- **Core:** React, Hooks, Redux, TypeScript, SASS, Tailwind, CSS-in-JS, Responsive, a11y, SSR, Zod, Cookies, date-fns, Day.js, Material-UI, etc
- **Architecture:** NPM, NPM Linking, Micro-Frontends, Module Federation, Webpack, Vite, NPM Scripts, Bash/ZSH, HTTP Proxies, CORS, NGINX, Docker Containers
- **Cat herding:** Git Hooks, Husky, ESLint, Prettier, Git Rebase, Code Review Standards

## Work History

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### US Bank • Lead Frontend Engineer • Oct 2023 - Feb 2025

- Worked within Webpack 5+Vite Module Federated micro-frontend architecture.
- Built an application to match incoming bank wires to internal accounts.
- Built a new date-picker based on Material UI.
- Re-built ForgeRock Access Management (PKCE) based authentication from pure client-side JS to nginx/http-only cookies.
- Provided demos to business team on a weekly basis.
- Fixed several hard-to-detect caching bugs w/ micro-frontend architecture. (sessionStorage, 404's on remoteEntry files)
- Upgraded from React-Router v6 to v7 (the remix-style one)
- Helped steer a questionable micro-frontend architecture based on Webpack 5 Module Federation+React Router into a more sensible approach based on Vite with some NGINX rewrites, which allowed for frontends NOT based on react and react-router.
- Expanded architecture to allow for different frameworks, like Tanstack Router or Blazor, to exist along side react-router.
- Migrated to new version of US Bank's internal component library, Shield 2.0.
- Upgraded apps to typescript strict mode.
- Led several technical interviews.
- Skills: React hooks, Zod, Zodios, openapi-zod-client, React-Query/Tanstack-query, GitLab, Jira, Agile Scrum.

### Optum • Senior Software Engineer • Mar 2023 - Sep 2023

- Created new architecture for micro-frontends that avoids the complexities of Module Federation.
- React, TypeScript, Stripe.js, Material UI, React context, React hooks, and Azure ApplicationInsights.
- Upgraded to typescript strict mode.
- Setup second micro-frontend with Docker, Docker-compose, NGINX, pm2, SolidStart, MUI/SUID, microbundle, Nx, yalc, github actions, bash, ash, alpine linux; along with a next.js 13 app that demonstrates consuming the micro-frontend.

### Rye • Senior Software Engineer • Oct 2022 - Dec 2022

- Used **Remix** on Rye's manual fulfillment app. React, Tailwind, Node, TypeScript, Firebase Auth, and Firestore.
- Also worked on Rye's [api tutorial](#), built with React, Tailwind, and Stripe.js.

### TextUs • Senior Software Engineer • Jun 2022 - Oct 2022

- Raised code review standards.
- Upgraded Prettier v1 → v2, ESLint v5 → v8, Cypress v5 → v10.
- Setup typescript to give editor hints across the whole codebase.
- Exposed hidden request-related errors.
- Created E2E type safety RFC, which included designs for tools to help us continually improve type safety.
- Used: Material-UI, Formik, React, Redux, Redux-Saga, React-Testing-Library, Jest, Chrome Extensions, Responsive css/media queries, flexbox.
- Led several technical interviews.

### Land O' Lakes • Lead Frontend Engineer • Nov 2021 - Jun 2022

- Lead frontend dev on ATLAS platform team.
- Work generally focused on maximizing farmer profit.
- Updated Next.js 9 → 12, NextAuth.js 3 → 4, Webpack 4 → 5, Prettier, ESLint, TypeScript, and Node.
- Improved CI/CD quality checks.
- Added multi-tenancy support to NextAuth.js for our app.
- Created modern logging setup based on Azure AppInsights and next-logger.
- Converted next-logger and pino-applicationinsights to 100% typescript.
- Wrote unit tests and integration tests with Jest and React-Testing-Library

## **Ameriprise • Senior/Lead Frontend Engineer • Sep 2020 - Nov 2021**

- Created company specific form library based on React-Hook-Form and TypeScript, which led me to develop great expertise in typescript, type generics, react memoization, and generally reducing re-renders.
- Wrote unit tests with Jest/React-Testing-Library, and E2E tests with Cypress.
- Maintained responsive designs with media queries
- Converted codebase to 99% typescript. All new code used react hooks.
- Worked with Nx.dev monorepo tooling, XO, @typescript-eslint, Prettier, etc.
- Participated in several technical interviews.
- **Acted as FE lead during second half of tenure.**

## **Best Buy • Senior Frontend Developer • Mar 2020 - Jun 2020**

- Worked with React, Redux, Reselect, **SSR**, Node.js, Express.js, a home-grown feature-flag system, Akamai Edge-Side-Includes (ESI/SSI), LESS, flexbox, responsive css/media queries.
- Worked on preferred store location cookies, diagnosed and patched bug in fetch polyfill affecting iOS 11+10, causing the users store to get incorrectly overwritten with geolocation.
- Wrote unit tests with Jest/Enzyme, and E2E tests with Cypress.

## **Robert Half • Frontend Developer • Nov 2017 - Jan 2020**

*BIWorldwide:* Jan 2019 - Jan 2020:

- **Acted as lead on small dev team.**
- Used SASS and media queries to build Responsive web app
- Worked on several apps with BI's Custom CMS, Q360.
- Incrementally upgraded the CMS:
- React 15 → 16, Webpack 1/Gulp → Webpack 2 → Webpack 3 → Create-React-App + Craco (Webpack 4 wrapper).
- Built reverse proxy with Node.js to allow us to connect our local dev server to any backend, allowing us to simulate our code running in production. (Had to rewrite cookie headers and modify cookie flags)
- Mastered git submodules, but after heavily researching monorepos, migrated to the CMS to a classic monorepo setup.
- Initiated typescript migration.
- Created language debug mode to find hardcoded english.
- Created versioning system for frontend, allowing us to check the console for exactly what version is deployed at that time in that browser and match it back to a git tag.
- Setup Sentry.js error dashboard.

*Allen Interactions:* Nov 2018 - Dec 2018: Created learning experiences with heavy animations, CSS3/HTML5/vanilla JS.

*Alliance Laundry Systems:* Nov 2017 - Oct 2018: Worked on ember-frontend of laundromat *management* app, with emphasis on re-writing washer/dryer programming interface. Setup sentry.js error dashboard.

## **EPAM • JavaScript Developer • Apr 2016 - Jun 2016**

- Built a simple internal app for one of EPAM's larger clients, Google.

## **Opera • JavaScript Developer • Jun 2015 - Jan 2016**

- Originally brought in for a simple 3 month project, which was completed successfully.
- Contract was extended, for me to create a chrome extension for a new consumer app.
- This chrome extension was architected so most ui loaded through a simple iframe, which essentially pointed to a "mobile site" with all the ui.
- This allowed us to rapidly iterate on the ux, without having to publish updates to the chrome web store.

## **Amobee • JavaScript Developer • Apr 2013 - Aug 2013**

- Helped with js side of hybrid native+web 3d ad engine.
- Upgraded ad markup language from XML to Jade templating, using Grunt.js.

## **Freelance & Startup projects • Full-Stack Developer • Dec 2010 - Aug 2013**

I've written 14 chrome extensions receiving 1,000's of downloads in total.

- **HeyImLea.com**, Built homepage for chatbot, scripted demo with ember+redux.
- **Scout**, personal startup project. Learned javascript, css, html, dom manipulation, web performance, iframes, and web scraping. <https://github.com/devinrhode2/Scout>
- **HMU**, Built team in college, developed app for connecting with friends nearby. Used SMS with twilio, and PHP on the backend. jQuery on the frontend.

## **Snap Speed Computer Care • Owner • Feb 2010 - Sep 2010**

- Had my own computer repair service in high school. This gave me a very real view of how the elderly work with technology, and greatly influenced my perspectives on UX.

## **Mesabi Range College • Tutor • Aug 2009 - May 2010**

- Helped students with their Algebra and Calculus 1 homework.

## **McDonald's • Crew Member • May 2008 - Apr 2009**

- Learned how to work at non-stop fast pace. Except for legally mandated breaks, of course.

## **Mesabi Daily News • Paper Carrier • Apr 2007 - Apr 2008**

- Delivered newspaper ~365 consecutive mornings by foot, even on snow days.

## Education

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**University of Minnesota, Duluth 2010-2011 – Focus: Computer Science, Math**