Devin Rhode, Senior TypeScript Engineer

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### Work History

**Optum •** Mar 2023 - Current

- Created new architecture for micro-frontend that avoids the complexities of Module Federation.  
 - React, TypeScript, Stripe.js. Material UI, React context, React hooks, and Azure ApplicationInsights.  
 - Upgraded codebase 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 •** 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](http://tutorial.rye.com), built with React, Tailwind, and Stripe.js.

**TextUs •** 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 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 •** 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](https://github.com/atkinchris/next-logger/pull/15) and [pino-applicationinsights](https://github.com/ovhemert/pino-applicationinsights/pull/64) to 100% typescript.

**Ameriprise •** 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 •** Feb 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.

**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 re-write 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.

**Alliance Laundry Systems •** Nov 2017 - Nov 2018

- Worked on ember-frontend of laundromat *management* app, with emphasis on re-writing washer/dryer interface used to set washer/dryer temperature/duration/cost settings.

- Used SASS and media queries to build Responsive web app

- Setup sentry.js error dashboard.

**EPAM •** Apr 2016 - Jun 2016

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

**Opera** **•** 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 web store.

**Amobee** **•** 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 •** Since December 2010

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

* [HeyImLea.com](https://web.archive.org/web/20161124175153/http://heyimlea.com/), Built homepage for chatbot, scripted demo with ember+redux.
* [Scout](https://web.archive.org/web/20141218095207/http://thescoutapp.com/), personal startup project. Learned javascript, css, html, dom manipulation, web performance, iframes, and scraping. <https://github.com/devinrhode2/Scout>
* [HMU](https://web.archive.org/web/20110402103557/http://texthmu.com/), Built team in college, developed app for connecting with friends nearby. Used SMS with twilio, and PHP on the backend. jQuery on the frontend.

### Education

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