Devin Rhode, Senior TypeScript Engineer

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Work History

US Bank • Oct 2023 - Feb 2023

- Worked within webpack 5+vite Module Federated micro-frontend architecture.
- Fixed several hard-to-detect caching bugs w/ micro-frontend architecture. (sessionStorage, 404's on js files)
- React-Router v6+v7 (the remix-style one), React hooks, Zod, Zodios, openapi-zod-client, React-Query/Tanstack-query
- 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.

Optum • Mar 2023 - Oct 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 • 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 • 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 and pino-applicationinsights 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**, Built homepage for chatbot, scripted demo with ember+redux.
- **Scout**, personal startup project. Learned javascript, css, html, dom manipulation, web performance, iframes, and 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.

Education

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