Oak Cooper

Senior Frontend Engineer | Vue · Angular | Remote

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Summary

> Senior frontend engineer who works like a product engineer: I start from who's using it, build the UI and the services behind it, and stay to see whether it worked. Four-plus years on a **~300-component** Vue app at ACV, where I built role-based tools for dealer groups, designed a way for customer service to watch a reported bug instead of guessing at it, and gave the frontend the monitoring to know when users were stuck. It also saved about **$80K a year** in hosting. **25 years** in software, the last ten in Angular and Vue.

Experience

ACV Auctions — ACV MAX

Senior Software Engineer, Frontend · `Remote · Feb 2022 - Jul 2026`

- **Migrated frontend deploys off Vercel onto AWS and Jenkins, saving ~$80K/yr** — rebuilt branch previews as a shared library that other teams adopted.
- **Built role-based navigation for multi-store dealer groups** — role-gated menus, a group dashboard across stores, and a tailored menu for appraisal-only dealers.
- **Built an itemized reconditioning workflow** for vehicle appraisals — replaced lump-sum entry with editable, GraphQL-backed line items.
- **Set up browser monitoring twice (New Relic, then Datadog)** — linked browser sessions to backend traces, so a slow page could be traced to the API behind it.
- **Designed the alert for the outage nobody saw** — after a **2-hour** GraphQL outage passed every existing check, replaced brittle threshold alerts with one self-learning anomaly monitor on GraphQL trace volume.
- **Closed an unauthenticated path to production data on customer-facing dealer widgets** — moved embed traffic behind an authenticated proxy and gateway, with **no downtime**.
- **Co-led the Vue 2 to Vue 3 / Vuetify 3 migration of a ~300-component app** — cleared the Vuetify breakages blocking it and moved state from a custom GraphQL client to Pinia.
- **Led Claude Code adoption, wrote its conventions** — the team uses my PR-description skill.
- **Cut local test runtime in half and memory use by 66%** — the fixes now run as a pre-PR check.
- **Authored an ADR standardizing error handling and logging** across NestJS, C#, Python, and Go services, adopted by multiple teams.

Hudson MX

Lead Frontend Developer · `Remote · Feb 2020 - Feb 2022`

- **Led a small frontend team** owning six Angular apps and one React app for an ad-tech platform.
- **Introduced an Nx monorepo with a microfrontend architecture**, and managed a private npm registry of shared UI components consumed by **30+ apps** and microfrontends across the company.
- **Established a UI design system on Storybook** in partnership with the UX team.

Dick's Sporting Goods (Blue Sombrero)

Lead Developer · `Atlanta, GA · Aug 2017 - Sept 2019`

- **Led the frontend architectural redesign of the flagship registration product** (web + mobile) in TypeScript/Angular — devised a microfrontend strategy using Angular Elements and maintained a shared component library used across product lines.
- **Built RESTful backend services and controllers in ASP.NET MVC**, using C# and Entity Framework against SQL Server — roughly 30% of the role's scope alongside the frontend architecture work.
- **Upgraded the flagship Angular 4 application through version 8**, including AoT support.
- **Introduced Jest and Cypress for unit/integration/e2e testing**; established mandatory PR and pre-merge build/lint/test checks.
- **Regularly partnered with the UX team** to build more reusable, responsive components.

Earlier Experience (2001 – 2020)

- **Rockwater Technology, LLC** — Sr. Angular Architect, contract (Dec 2019 – Jan 2020): Angular 4 to 8 upgrade, NgRx (Redux), RxJS.
- **Preparis, Inc.** — Sr. Software Engineer (Apr 2016 – Aug 2017): led the frontend redesign of the flagship portal (AngularJS) and built a hybrid mobile app (Ionic).
- **Morneau Shepell** — Sr. Software Engineer / Technical Lead (2013 – 2016): tech lead for **14 developers** on a healthcare SaaS platform (ASP.NET, AngularJS).
- **Prior roles (2001–2013):** Sr. Systems Engineer at Kabbage (WCF to REST migration, first native Android app); consultant at HotDocs; co-founder/developer at Centrafuse; SWE II at FNC.

Skills

Frontend: Vue 2/3, Vuetify, Angular, React (Next.js), TypeScript, Pinia, NgRx (Redux), GraphQL

Backend: Node.js, .NET/C#, Express, NestJS, REST

Databases: PostgreSQL, SQL Server, MongoDB, Firestore

Build & CI/CD: Jenkins, Docker, Vite, GitHub Actions, AWS (S3, CloudFront, Lambda)

Observability: Datadog (RUM, monitors, sourcemaps), New Relic

AI-assisted engineering: Claude Code, custom skill/plugin development, AI-forward workflows

Testing: Vitest, Jest, Cypress, Storybook, Chromatic

Personal Projects

Postmarked: Built a postcard-tracking PWA that my household uses every day. Vue 3, Pinia, and Firebase (Auth with Google sign-in limited to an allowlist, Firestore, Storage), with separate staging and production Firebase projects and encrypted Firestore backups. Private repo; happy to walk through it.

Education

Bachelor of Business Administration, Management Information Systems
University of Mississippi