Mark Barry

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Senior Software Engineer

Senior Software Engineer specializing in React, TypeScript, and complex frontend applications. Experienced in building high-performance, consumer-facing products and turning complicated workflows into intuitive user experiences. Strong full-stack background spanning visual workflow builders, AI-powered features, and data visualization.

Technical Skills

Frontend: React, TypeScript, JavaScript, Next.js, Redux, TanStack Query, HTML, CSS, Sass, Tailwind CSS, shadcn/ui

UI & Visualization: React Flow, Nivo, Framer Motion, Material UI, Storybook, Design Systems, Accessibility (WCAG)

Backend: Ruby on Rails, Node.js, C#, ASP.NET, REST APIs, GraphQL, WebSockets, SQL Server

AI & Tools: RAG, Pinecone, Claude Code, Cursor, Git, Jest, React Testing Library, Playwright, Vite, Webpack, AWS, Azure, Firebase

Professional Experience

Kajabi — Irvine, CA

Senior Software Engineer | June 2021 – Present

- Led frontend architecture and development of a visual workflow builder using React, TypeScript, and React Flow, transforming a simple automation system into a multi-branch workflow editor with complex state management and reusable components.
- Built and shipped an AI-powered knowledge assistant using React, Ruby on Rails, Pinecone, and RAG, delivering real-time streaming responses grounded in content users were authorized to access.
- Led migration of a large React codebase from JavaScript to TypeScript, establishing patterns and tooling that improved type safety, maintainability, and developer experience.
- Developed features across the full stack of a Rails-based SaaS platform, building React interfaces, backend services, and API integrations.
- Built an AI-powered video transcription feature, integrating external APIs and managing asynchronous processing and complex UI state with React Query.

QOS Networks — Irvine, CA
Frontend Software Engineer | August 2020 – June 2021

- Built interactive dashboards and data visualizations using React, Next.js, and Nivo, helping users explore complex network performance data.
- Developed reusable UI components and optimized data-heavy interfaces for performance and usability.
- Integrated frontend applications with backend services and authentication systems using Firebase and Azure.

AutoGravity / Turn Car — Irvine, CA
Senior Software Engineer | May 2019 – April 2020

- Developed customer-facing web applications using React, Gatsby, GraphQL, and TypeScript.
- Built internal dashboards and tools for managing vehicle inventory and fleet data.
- Contributed to frontend architecture and reusable component patterns to improve maintainability and support ongoing product development.

iHerb — Irvine, CA
Senior Frontend Developer | November 2015 – March 2019

- Led frontend performance optimization initiatives for a global e-commerce platform serving millions of customers, reducing page load times by up to **2 seconds in the U.S. and 10 seconds internationally**.
- Led frontend development of internal product management and back-office applications using React, Redux, and TypeScript.
- Collaborated with design and engineering teams to improve desktop and mobile experiences, including localization and right-to-left language support.

Earlier Experience — 2005–2015
Web Developer / .NET Developer

- Built and maintained full-stack web applications using ASP.NET MVC, C#, SQL Server, Oracle, and JavaScript, developing business logic, APIs, database integrations, and customer-facing interfaces.

Education

University of California, Santa Barbara
Bachelor of Arts — Music (Theory and History)