

# Erik Lopez

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## SUMMARY

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Full Stack engineer turned frontend specialist with many years of e-commerce experience bringing deep technical understanding to UI development. Creator of company-wide development tools that streamline engineering workflows. Leader in developer experience initiatives, driving adoption of modern frontend frameworks and best practices. Lifelong learner who adapts to new technologies and frameworks quickly and enjoys sharing that knowledge to level up the team.

## ACCOMPLISHMENTS

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- Collaborates with many different stakeholders and team members across the entire organization as project lead for various features and applications. These have ranged from C-Suite executives, department managers, product managers, designers, and fellow engineers, among others.
- Proactively designs and builds various developer tools from the ground up to decrease repetitive toil and increase development velocity of the team, including a REST APIs, component libraries, and design systems.
- Optimizes application performance, adheres to accessibility guidelines, and improves Core Web Vitals to ensure that users have a great experience, demonstrating a product-minded approach.

## EXPERIENCE

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### Vizit

Jan 2024 - Jan 2025

#### Senior Frontend Software Engineer

- Created and iteratively refined AI-powered analytics interface with React, TypeScript, TailwindCSS, TanStack Query, and GraphQL on AWS; optimizing the initial prototype to reduce page load times by over 90%.
- Expanded unit test coverage from 35% to over 85% across the application, migrating from Jest to Vitest with React Testing Library, while also adding Playwright end-to-end testing capabilities.
- Modernized company-wide design system by implementing Storybook with documentation, introducing automated Figma token integration, and leading efforts to replace Material UI (MUI) with React Aria Components.
- *Affected by a reduction in force.*

### Zillow

Apr 2023 - Nov 2023

#### Senior Frontend Software Engineer

- Architected observability strategy for revenue-critical contact forms using Datadog RUM, establishing performance metrics taxonomy, dashboards, and traffic sampling strategy to track user interactions across multiple forms serving 57M+ monthly visitors on Zillow's For Sale listings.
- Created various Product Requirements Documents (PRD) for new features, outlining technical designs, breaking down tasks, defining timelines, identifying risks, and recording key learnings after implementation.
- Owned new feature development end-to-end using React, TypeScript, React Redux, and GraphQL to improve user experience and support business initiatives.

### Bond Vet

Jun 2022 - Jan 2023

#### Lead Frontend Software Engineer

- Redesigned Bond Vet's online appointment booking application in partnership with designers and product managers, achieving 40% increase in conversion rate using Gatsby, React, Sass, and Google Cloud Platform integration.
- *Affected by a reduction in force.*

## Milo Veterinary Software

Jan 2022 - Mar 2022

### Lead Frontend Software Engineer

- Reduced ticket backlog by over 50%, addressing customer complaints in Milo's B2B SaaS product using React, TypeScript, NextJS, and styled-components.
- *Milo was forced to cease operations after an unsuccessful Series A fundraising.*

## Tuft & Needle

Sep 2016 - Jan 2022

### Senior Frontend Software Engineer

- Engineered frontend features at high-growth startup Tuft & Needle using React, TypeScript, NextJS, React Redux, and Cypress, maintaining rapid development cycles while scaling the e-commerce platform to support \$170M+ in annual revenue.
- Built Tuft & Needle's first design system, shared across tuftandneedle.com, serta.com, and beautyrest.com, with Storybook and ChakraUI, reducing new feature development time by 40% while ensuring a consistent, responsive UI/UX, and WCAG compliance.
- Partnered with design and data science teams to plan and implement A/B tests on the Purchase Experience team, delivering optimizations that increased conversion rates by 29%.

## Salt River Project

Oct 2006 - Sep 2016

### Principal Technical Architect

### Senior Fullstack Engineer

### Fullstack Engineer

- Led the modernization of a municipal water management web platform, directing a team of twelve full stack engineers during a comprehensive system overhaul.
- Independently developed and deployed full stack web applications to modernize internal HR workflows, transforming manual processes into self-service solutions.
- Architected and implemented a company-wide REST API for employee data, significantly reducing duplicate engineering work across teams.
- Served as primary full stack engineer for multiple customer-facing websites including company's flagship platform, serving 500,000+ unique monthly visitors.
- Led technical implementation of comprehensive flagship site redesign through cross-functional collaboration, introducing Bootstrap-based design library to ensure consistent user experience.

## EDUCATION

### Master of Science, Information Management

W.P Carey School of Business

Arizona State University

### Bachelor of Science, Computer Information Systems

W.P Carey School of Business

Arizona State University