ZOË HALL

Senior Frontend Engineer

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Portfolio | LinkedIn | GitHub | Medium | Calendly

PROFILE

I don't believe in firefighting. I believe in building systems that make fires nearly impossible to start. That principle has guided 8+ years of work across very different contexts: government platforms where 17 million residents depended on interfaces that couldn't break, and startups where I helped scale Fleetio from Series B to a $6B valuation. Different environments, same approach. Embed quality into the architecture itself, and the code ships fast and stays reliable. I treat AI the same way: not as a novelty, but as infrastructure. GitHub Copilot and Claude Code are part of how I build now.

TECHNICAL SKILLS

React | Next.js | TypeScript | JavaScript (ES6+) | GraphQL | REST APIs | Node.js | Python | Storybook | Chromatic | Design Systems | Atomic Components | Accessibility (WCAG) | SEO Architecture | A/B Testing | CI/CD | AWS | Docker | Kubernetes | PostgreSQL | Redis | Tailwind | SASS | Figma | Git/GitHub | Supabase | Vercel | OpenAI API

EXPERIENCE

Frontend Architect / Lead Frontend Engineer | Fleetio

Nov 2022 -- Present | Remote | Series B to Series D ($6B valuation)

Owned frontend architecture for a high-traffic B2B SaaS marketplace serving enterprise customers globally. Built the systems that made it structurally difficult to ship broken, slow, or inaccessible interfaces.

- **Component Architecture:** Built a 75+ component React library with Storybook and Chromatic visual regression protection. Single source of truth plus pipeline normalization equals zero UI defects reaching production.
- **Velocity:** Reduced feature implementation time by 60%. Work that took weeks now ships in hours through reusable components, GraphQL API patterns, and automated quality gates.
- **Migration:** Led full-stack migration from Ruby on Rails to React, Next.js, and TypeScript. Build times dropped from 28 minutes to 2 minutes. Deployment cycles compressed from weeks to hours.
- **Quality Infrastructure:** Built SEO validation pipelines that catch regressions in CI before they reach users. Health score improved from 68% to 92%, volatility eliminated.
- **Accessibility:** Embedded WCAG accessibility requirements directly into components, tests, and review workflows. Scores jumped from 64 to 98 in a single quarter.
- **Team:** Grew cross-functional team from 1 to 6 across engineering and design. Established shared ownership of frontend quality standards across the org.

Frontend Architect / Senior Frontend Engineer | Tyler Technologies

Mar 2020 -- Nov 2022 | Harrisburg, PA | Government Contracts

Architected accessibility-first frontend systems for Pennsylvania state platforms including DMV, Treasury, Pa.gov, and gubernatorial sites for Tom Wolf and Josh Shapiro. Serving 13 million residents with strict compliance, security, and zero-downtime requirements.

- **Keystone Design System:** Shipped WCAG AAA-compliant Keystone Design System, adopted statewide then scaled by Tyler Technologies to 40+ states with per-state branding. Product thinking applied at infrastructure scale.
- **Emergency Response:** Built emergency notification system alerting 4.6 million Louisiana residents to unsafe water conditions during hurricane emergencies. Zero-downtime public safety infrastructure under real pressure.
- **Infrastructure:** Containerized frontend applications with Docker, deployed via Kubernetes, configured AWS environments, and integrated SSO for secure state employee and resident access.
- **Performance:** Improved page performance ~15% while consistently maintaining 98+ accessibility scores across high-traffic applications.

PROJECTS

Behavioral Productivity App | Python, GraphQL, React Native, OpenAI API

Full-stack app integrating calendar APIs to analyze behavioral patterns and decompose long-term goals into actionable daily tasks. Designed the GraphQL API layer and built conversational AI features using OpenAI API.

Python-React Starter Kit | Developer Tooling | github.com/ZoeFaithHall/BASIC-Python-React-Starter-Kit

Packaged full-stack starter template for developers building Python/React applications. Commercially available and actively maintained.

OpenSure Risk Registry | Open Source Research | opensure.io

Research initiative surfacing hidden technical, security, and continuity risks absorbed by open source maintainers, helping enterprises understand the infrastructure they depend on.

EDUCATION

Full-Stack Web Development Certification | Bloc.io, San Francisco

Top 1% of graduating class. Full-stack curriculum: React, Node.js/Express, SQL databases, API development, testing, and deployment.

MENTORSHIP

Mentor, Tech Ladies | Dec 2024 -- Present

Career progression guidance, interview prep, and navigating industry challenges for women in tech.