

Sage Gatzke

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SUMMARY

Senior Software Engineer with over ten years of experience specializing in frontend development, UX design, and technical modernization. Deep experience in React, TypeScript, Next.js, and state management patterns, with a proven track record of leading architectural initiatives and designing user-centered interfaces. Skilled in DevX optimization, establishing engineering best practices, and mentoring teams.

PROFESSIONAL EXPERIENCE

Senior Software Engineer

LUCI Systems LLC | Las Vegas, NV (Remote) | 10/2023 - 02/2026

- Led full V2 UI modernization initiative: migrated entire codebase to TypeScript and replaced tightly coupled MobX State Tree architecture with Zustand, React Query, and Zod, eliminating cascading useEffect bugs and significantly improving maintainability.
- Defined and drove the end-to-end product design direction for V2, creating user flows and visual designs independently and using AI-assisted prototyping to accelerate feature development.
- Designed and built complex device management views: an interactive map with drag-and-drop and right-click context menus, a mobile-responsive real-time list view with advanced filtering, and a policy configuration UI.
- Rebuilt form architecture using React Hook Form with Zod validation and React Query for data synchronization, creating consistent, type-safe patterns across all database workflows.
- Developed automated Lighthouse testing framework integrated into the Playwright suite, improving performance scores from the 40-50% range to 80% across the platform.
- Wrote architectural documentation designed for AI consumption so engineers using coding agents received convention-correct boilerplate on the first pass, reducing codebase fragmentation.
- Helped maintain and expand E2E test suite to over 100 user flows and mentored new team members with documentation and guidance on engineering practices.

Senior Software Engineer

Doma | San Francisco, CA | 11/2021 - 04/2023

- Led frontend development on an ML-driven proof of concept in three months: defined all frontend tickets, established design language standards, and shipped a functional prototype to multiple clients.
- Collaborated with product and design to build and iterate on a portal serving Escrow Officers, Real Estate Agents, and Sales Representatives.
- Helped define best practices and built a reusable component library as part of the design system team, documenting new components, patterns, and styles.

Senior Software Engineer

CBRE | Seattle, WA | 04/2020 - 11/2021

- Delivered frontend features across multiple internal applications, coordinating with product and design.
- Architected and implemented frontend for the product-to-platform / micro-frontend initiative with internal shared libraries.
- Major contributor to the internal design system (versioning, documentation); evaluated Web Components and Lit 2.0 for design-system direction and judged adoption tradeoffs for the team.

- Raised test coverage from 50% to 90% across feature apps and shared/design-system code; mentored interns and junior engineers.

Software Engineer

CBRE | Seattle, WA | 10/2018 - 04/2020

- Migrated AngularJS application to React, delivering new features and expanding automated test coverage throughout the transition.
- Collaborated with product, design, and backend teams to ship iterative releases during the migration.
- Mentored interns and junior engineers.

Software Engineer

Ministry Of Product LLC | Seattle, WA | 09/2016 - 01/2019

- Designed and developed Ionic 2+ applications with features including streaming audio, geo-fencing, time tracking, Fitbit integration, chat, notifications, and charts.
- Built a TypeScript Express API for Ionic apps using JWT, MongoDB, and Firebase for push notifications.
- Delivered prototypes for client and internal projects on iOS and Android.

ADDITIONAL EXPERIENCE

Software Developer

PugetWorks Inc. | Seattle, WA | 12/2015 - 04/2016

- Built a proof-of-concept application using Angular and Ionic.

Software Engineer Intern

Trupanion | Seattle, WA | 09/2014 - 01/2015

- Built an MVC C#/JavaScript app for managing settings across multiple environments.
- Built a Visual Studio extension wizard for generating company-specific boilerplate projects.
- Built a WPF application using Jira web services to produce compliance reports.

Web Developer and Tester

Ososlo LLC | San Luis Obispo, CA | 11/2013 - 02/2014

- Installed and tested JavaScript/PHP/Magento plugins for an e-commerce website.

C# Programmer

World Health Organization | Seattle, WA | 08/2013 - 12/2013

- Built a ClickOnce application to interact with and update specific WHO applications.

EDUCATION

Bachelor's, Software Development | Western Governors University | 2017

Associate's, Programming | Seattle Central College | 2015

SKILLS

React, TypeScript, JavaScript, Next.js, Zustand, React Query, Zod, React Hook Form, Tailwind CSS, Shadcn UI, Redux, Micro Frontends, Material-UI, Design Systems, UX/UI Design, Responsive Web Design, Ionic Framework, Angular, HTML, CSS, Node.js, AngularJS, MongoDB, MySQL, Express.js, Playwright, Lighthouse Performance Testing