

Steven Andrew Gwillim

Senior Software Engineer

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👤 PROFILE

Senior Software Engineer with 12+ years of experience building fast, scalable, and accessible web applications using **React**, **Next.js**, and **Angular**. Expert in modern frontend architecture, including **micro-frontends**, **SSR/SSG**, and **component-driven development**. Strong background in enterprise design systems, performance optimization, and cross-functional collaboration. Passionate about delivering seamless UX through clean code, accessibility, and state management best practices.

🎓 EDUCATION

Bachelor's Degree / Computer Science, Simon Fraser University
2007 – 2011 | Burnaby, BC

📁 PROFESSIONAL EXPERIENCE

Senior Software Engineer, CGI

02/2022 – 03/2025 | Remote

Client: TELUS Health

Built a modular, micro-frontend dashboard for healthcare providers with multi-tenant support, SSO, and real-time data features.

- Led the migration to **Micro-Frontend Architecture** using **Webpack Module Federation** and **Nx monorepo**
- Built core UI components using **React 18**, **TypeScript**, and **Tailwind CSS** following atomic design principles
- Created SSR-enabled modules with **Next.js 13** for dynamic route handling and SEO optimization
- Integrated OAuth2 SSO and access control with React Router and context-based auth layers
- Collaborated with backend teams consuming REST and GraphQL APIs
- Achieved Lighthouse scores of 95+ through lazy loading, image optimization, and code splitting
- Used Cypress, Jest, and Storybook for E2E, unit, and visual testing
- Deployed to Azure using GitHub Actions and Terraform; monitored frontend KPIs via Sentry and Datadog
- Mentored 5+ frontend engineers and standardized the frontend build pipeline

Senior Full Stack Developer, Amazon

10/2018 – 12/2021 | Vancouver, BC

Rebuilt customer order and delivery portals using React and introduced Next.js for server-side rendering and internationalization.

- Developed React-based dashboards with Redux Toolkit and custom hooks
- Built SSR components using **Next.js 10–12** with dynamic imports and fallback strategies
- Integrated real-time order tracking using WebSockets and React Query
- Used **Angular 10+** to maintain legacy modules during React migration
- Contributed to internal component library with accessibility and theming support (ARIA, dark mode)
- Reduced initial load time by 45% with route-based code splitting and image optimization
- Automated deployments with Jenkins and managed frontend containers on AWS ECS
- Participated in A/B testing with Optimizely and Google Optimize to drive UI decisions

SKILLS

Languages & Tools: JavaScript (ES6+), TypeScript, HTML5, CSS3, SCSS, Markdown

Frameworks & Libraries: React (16–18), Next.js (10–13+), Angular (1.x–16), Redux Toolkit, React Query, Tailwind CSS, Bootstrap, RxJS, NgRx

Architecture & Patterns: Micro-Frontend Architecture, Monorepos (Nx/Turborepo), SSR, SSG, PWA, Component-Driven Development

APIs & Data: REST, GraphQL, Axios, Apollo Client, SWR, WebSockets

Testing & QA: Jest, React Testing Library, Cypress, Storybook, Playwright

DevOps & Tools: Webpack, Vite, GitHub Actions, Jenkins, Azure DevOps, Docker, Terraform

Monitoring & Perf: Lighthouse, Sentry, Datadog, GTMetrix, Chrome DevTools

Design & Accessibility: Figma, ARIA, WCAG, Styled Components, Headless UI

Project Tools: Git, Jira, Confluence, Agile/Scrum, Slack

Full Stack Developer, Appnovation

07/2014 – 08/2018 | Vancouver, BC

Delivered CMS-integrated and real-time financial dashboards using Angular and early React SPAs.

- Developed AngularJS to Angular 6+ enterprise applications with RxJS and NgRx
- Migrated key modules from jQuery to **React 16**, improving maintainability and performance
- Built responsive layouts using Bootstrap 4, Flexbox, and Sass
- Implemented data-driven charts with D3.js and Chart.js
- Integrated REST APIs and used Axios, GraphQL clients for data layers
- Created custom CI/CD scripts for versioned builds and CDN deployments
- Led internal workshops on moving from monoliths to SPAs and PWA patterns

Junior Software Developer, iQmetrix

03/2012 – 05/2014 | Vancouver, BC

Maintained retail-facing admin panels and reporting UIs using HTML5, CSS3, and jQuery in an ASP.NET-based ecosystem.

- Built interactive forms and reports with jQuery and vanilla JavaScript
- Migrated static pages to responsive templates using Bootstrap 3
- Supported early experiments with Knockout.js and client-side routing
- Assisted QA and UX teams with user testing, UI fixes, and browser compatibility