

Christopher Anderson

Senior Software Engineer (Frontend Focus)

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Frontend-focused senior software engineer with 20 years of experience building fast, accessible web applications and nearly a decade modernizing ecommerce for established brands at 64labs. Led frontend architecture and client technical direction while remaining hands-on with React, TypeScript, composable commerce, and headless CMS platforms. Broader full-stack experience includes Node.js, Python, and PostgreSQL. Recent independent work spans accessible React interfaces, server-rendered application architecture, and browser-based 3D interaction.

EXPERIENCE

Career Break & Independent Projects

Nov 2023 – Present

Took a planned mid-career break, then gradually returned to hands-on engineering through personal projects before concentrating on Eyepiece and Room Layout.

Eyepiece · React 19, TypeScript, TanStack Start/Query, Supabase, Netlify

Astronomy image search and collections website built around NASA and Smithsonian archives.

- Designed context-preserving asset navigation that keeps search results in place while each asset remains available at its own shareable URL, preserving browser back and forward behavior, and restoring focus on close
- Separated public rendering from account-specific data so shareable pages remain CDN-cacheable, using typed route definitions, import boundaries, and runtime session checks to keep session-dependent responses private
- Created an accessible image-grid interaction model in which keyboard navigation follows the visible layout and nested controls remain usable across keyboard, pointer, and touch input

Room Layout · React Three Fiber, Three.js, TypeScript, Vite

Browser-based, retail-style 3D planner for selecting catalog furniture and exploring combinations and arrangements in a configurable room.

- Designed a headless application core that centralizes document state, undo history, selection, and persistence independently of React controls and Three.js rendering
- Implemented first-class keyboard control for selection, furniture movement and rotation, camera, and focus routing through operations shared with pointer and numeric controls, announcing outcomes to screen readers
- Protected the 3D planner's idle performance with an end-to-end test that detects unnecessary React, scene, or toolbar updates after interaction settles, guarding against avoidable CPU and battery use

64labs, Inc. · Senior Software Engineer (Frontend Focus)

Mar 2020 – Oct 2023

- Led the development team and technical direction for the agency, covering architecture decisions, mentoring, and client-facing technical consulting, while remaining hands-on in delivery
- Architected a reusable PWA accelerator that gave clients an early branded storefront connected to their live catalog within the first weeks of an engagement, making discovery concrete and building alignment before full implementation
- Led frontend architecture for composable commerce PWAs across multiple enterprise integrations, using Backend-for-Frontend layers to decouple frontend iteration from backend systems; storefronts generally scored in the 90s on Lighthouse
- Led a full frontend rebuild from a legacy storefront to a headless React PWA; company leadership reported a 50% year-over-year increase in average order value following the transition
- After Salesforce acquired Mobify, partnered with the PWA Kit team to contribute production code and direct implementation feedback to the Commerce Cloud composable storefront platform

64labs, Inc. · Senior Full-Stack Software Engineer

Feb 2017 – Mar 2020

- Replaced handwritten sales and leasing workflows for a national equipment-leasing sales force with a tablet application that enforced equipment and accessory rules, sent item requests to the warehouse, and generated complete contract packages for routing and signature; the client estimated an 80% reduction in processing time
- Designed and built a full-stack analytics platform (Python, PostgreSQL, D3.js) for a 100+ location fitness brand, delivering role-scoped interactive dashboards for operational oversight and anomaly detection

64labs, Inc. · Full-Stack Developer

Nov 2013 – Jan 2017

- Delivered mobile and tablet experiences for enterprise retailers as mobile approached 50% of client web traffic, proxying legacy desktop sites to transform their HTML and inject new CSS and JavaScript without replacing the underlying platforms
- Built mobile-only React SPAs on JSON APIs generated from legacy storefront HTML, creating modern frontend experiences where conventional backend APIs were unavailable

Best Evidence, Inc. · Web Platform Developer / 3D Animator

Apr 2004 – Jul 2013

- Built a full-stack web platform with real-time chat, video streaming, and CMS features for a legal-tech environment
- Produced 2D and 3D trial graphics and animations in collaboration with attorneys to communicate complex evidence visually

SKILLS

Frontend: React, TypeScript, JavaScript, HTML, CSS, TanStack (Start/Query/Router), Next.js, React Aria, Panda CSS, Tailwind, React Three Fiber

Backend & Data: Node.js, Python, PostgreSQL, Supabase, REST, GraphQL

Commerce & Platforms: Composable Commerce, SFCC, Netlify, Vercel, AWS, Cloudflare, Algolia, Amplience

Testing: Playwright, Vitest, Jest, React Testing Library, Cypress

Engineering Practices: WCAG accessibility, Core Web Vitals/Lighthouse, architecture decision records, AI-assisted development

EDUCATION

Full Sail University · Associate of Science, Computer Animation · Salutatorian

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