

Weston Blair Ross

Front-End Engineer | React | TypeScript | AI-Powered Web Applications

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Professional Summary

Front-End Engineer with 9+ years of experience designing, architecting, and shipping modern web applications using TypeScript, React, JavaScript, HTML, and CSS. Strong background leading front-end architecture, building scalable component systems, improving developer experience, and delivering complex internal and customer-facing applications. Experienced with AI-powered product development, monorepos, API integration, automated testing, accessibility, performance optimization, and cross-functional collaboration with product, design, backend, QA, and offshore engineering teams.

Core Skills

TypeScript, JavaScript, ES6+, React, React Hooks, React Router, TanStack Query, React Query, Zustand, Redux, Complex State Management, HTML5, CSS3, Tailwind CSS, shadcn/ui, UI Component Libraries, Responsive Design, Accessibility, ADA Compliance, UI/UX Design, Figma, REST APIs, GraphQL, Apollo Client, OpenAPI, Swagger, Kubb, Node.js, NestJS, Vite, Monorepos, Vitest, Jest, Testing Library, Cypress, Automated Testing, CI/CD, Performance Optimization, Progressive Web Apps, PWAs, AI-Assisted Development, Claude, Agent Workflows, LangChain

Professional Experience

Secure-IT — Front-End Engineer

Aug 2024 – Mar 2026 | Remote | San Diego, CA / Phoenix, AZ

- Led front-end engineering across multiple AI-powered products, owning architecture decisions, technology selection, code standards, merge request reviews, and coordination with an offshore development team.
- Architected and developed Sentinel and Ask-Sentinel, an AI-driven professional network connecting property managers with vetted tradespeople for commercial repair workflows.
- Built a complex multi-panel React web application for service requesters and a companion mobile Progressive Web App for requesters and providers.
- Established a TypeScript monorepo using React, Vite, React Router, TanStack Query, and Vitest to support shared development across multiple products.
- Delivered a reusable component library using shadcn/ui and Tailwind CSS, aligned with Figma designs and shared across the Sentinel web application and Ask-Sentinel PWA.
- Architected and scaffolded the front end of Birdcall, an AI voice-agent platform, including monorepo structure, shared components, routing, API integration patterns, and developer workflow standards.
- Integrated Kubb for automated API hook generation from backend Swagger / OpenAPI schemas, improving type safety and reducing manual API client work.
- Contributed to the NestJS backend by updating DTOs and supporting full-stack feature delivery where needed.

Equinix — Front-End Engineer

Jan 2023 – Nov 2023 | Remote | San Diego, CA

- Resolved front-end performance bottlenecks, improved code quality, mentored junior developers, and helped establish stronger team engineering standards.
- Implemented complex conditional forms using TypeScript, React Hook Form, and Zod.
- Built GraphQL queries, mutations, and subscriptions using Apollo Client.
- Developed and tested reusable custom React hooks for a shared utilities library, improving code reuse and maintainability.
- Wrote unit tests with Jest and Testing Library to improve software quality, regression coverage, and confidence in production releases.
- Migrated a legacy Create React App JavaScript codebase and build system to Vite, TypeScript, and CI/CD workflows, reducing technical debt and improving developer experience.

Bank of America — Front-End Engineer

Aug 2017 – Apr 2022 | Remote | Charlotte, NC / San Diego, CA

- Designed and developed multiple internal React applications, partnering with stakeholders and back-end developers to deliver secure, production-ready API-integrated tools.
- Led the design and development of a Control Health Monitoring and Reporting dashboard with CRUD workflows, reporting features, and strict security and ADA compliance requirements.
- Built data-driven and workflow-focused applications, including administrative CMS tools, real-time pipeline dashboards, data quality reporting, anti-phishing interfaces, NLP chatbot UIs, and vulnerability visualization prototypes.

Tandem Diabetes Care — User Experience Designer

Feb 2017 – Aug 2017 | San Diego, CA

- Designed user interfaces and interaction models for handheld medical devices while considering FDA regulatory requirements and a broad user population.
- Created high-fidelity prototypes using Sketch and InVision for usability testing and stakeholder review.
- Developed browser-based prototypes using JavaScript and CSS to evaluate user interactions, animations, and product workflows.

Cask LLC — Front-End Engineer

Oct 2016 – Feb 2017 | Remote | San Diego, CA

- Designed and developed IT Service Management user interfaces on the ServiceNow platform.
- Built responsive and cross-browser-compatible interfaces aligned with customer style guides and business requirements.

Socialite Labs — UI/UX Designer and Developer

Jul 2015 – Jan 2016 | San Diego, CA

- Designed product logos, brand style guides, page layouts, and interaction models using Adobe Illustrator.
- Maintained design libraries for color palettes, typography, and reusable user interface elements.

United States Navy — Aviation Electronics Technician

Jul 2010 – Jul 2015 | Norfolk, VA / Manama, Bahrain

- Maintained and repaired complex avionics systems on E-2 Hawkeye and C-2A Greyhound aircraft, including radar, surveillance, navigation, and VHF/UHF/SATCOM communications systems.
- Served as Avionics Shift Supervisor, Collateral Duty Inspector, and Electronic Key Management System petty officer while forward-deployed in support of Operations Enduring Freedom and Inherent Resolve.
- Supervised and trained apprentice and journeyman avionics technicians in aircraft maintenance, troubleshooting procedures, and operational readiness standards.
- Held Secret Security Clearance authorization dated 03/09/2010.

Education

Skill Distillery — Full Stack Web Development Bootcamp

Feb 2016 – Jul 2016 | Denver, CO

Completed an intensive full-stack software development program focused on Java, Spring, SQL, JavaScript, HTML, CSS, object-oriented programming, Node.js, Express, MongoDB, and AngularJS.

Saint Leo University — General Studies

2012 – 2013 | Norfolk, VA

U.S. Naval Air Technical Training Center — Avionics Maintenance Technology / Technician

2010 – 2011 | Pensacola, FL