Roger H. White

Senior Front-End Engineer | React & Generative AI | UX/UI Specialist

ABOUT

Accomplished Senior Front-End Engineer, React Developer, and Generative AI Specialist with 15+ years of experience delivering enterprise web applications, frontend architecture, AI-powered user experiences, and digital transformation initiatives across healthcare, financial services, retail, and enterprise technology organizations.

Proven record modernizing platforms serving 15.7M+ users, delivering 15+ enterprise Drupal migrations, engineering 12+ AI-powered applications, supporting 10K+ users with real-time digital solutions, and improving software quality by 45% through automated testing, accessibility, and performance optimization.

Highly skilled in React, TypeScript, JavaScript, Next.js, Generative AI, OpenAI integration, Drupal CMS, Adobe Experience Manager, UI/UX development, REST & GraphQL APIs, CI/CD, accessibility, frontend architecture, Agile delivery, stakeholder collaboration, and enterprise application modernization.

PROFESSIONAL EXPERIENCE

Senior Generative AI Frontend Engineer | CHOC / Rady Children's Health | Feb 2026 - Present

- Spearheaded frontend development for an enterprise Generative AI platform, building real-time chat, document interaction, and AI-assisted workflows that improved internal productivity.
- Accelerated task completion by 30% through responsive React/TypeScript interfaces and prompt-driven user experiences that increased AI feature adoption.
- Optimized frontend components, state management, and cross-device responsiveness, delivering scalable, intuitive, and high-performance AI user experiences.

Relevant Skills: React • TypeScript • Generative AI • OpenAI API • UI/UX • Front-End Architecture • State Management • Responsive Design

Full-Stack AI Consultant / Engineer | Contract AI Project | Feb 2025 - Feb 2026

- Engineered 12+ AI-powered full-stack applications using React, TypeScript, Node.js, and OpenAI APIs to streamline business workflows.
- Improved application performance by 35% through API optimization, efficient state management, and backend tuning.
- Developed secure end-to-end AI solutions by integrating responsive frontends, scalable backend services, and LLM capabilities.

Relevant Skills: Full-Stack Development • Node.js • OpenAI • REST APIs • LLM Integration • React • TypeScript

Senior Front-End Developer | Fannie Mae | Jun 2022 - Dec 2025

- Spearheaded migration of 15+ enterprise websites to Drupal 10/11 by modernizing React/TypeScript integrations and component architecture.
- Reduced content review time by 30% through AI-powered UI components with OpenAI APIs and secure REST/GraphQL integrations.
- Strengthened frontend quality by implementing automated testing, CI/CD pipelines, and accessibility best practices for WCAG-compliant experiences.

Relevant Skills: Drupal CMS • React • TypeScript • CI/CD • Accessibility • REST APIs • GraphQL • Automated Testing

AEM UI Developer | ASICS | Jan 2022 – Jun 2022

- Delivered 8+ Adobe Experience Manager UI components using HTL, JavaScript, and CSS, enabling rapid deployment of responsive digital experiences across enterprise web properties.
- Improved page performance by 25% through frontend optimization, reusable component development, and efficient client-side rendering.
- Developed scalable, maintainable, and brand-consistent AEM interfaces by applying modern frontend technologies and component-based design practices.

Relevant Skills: Adobe Experience Manager • HTL • JavaScript • CSS • UI Component Development • Performance Optimization • Responsive Design

Website Coordinator - UX/UI Specialist | Bausch Health | Jul 2021 – Jan 2022

- Orchestrated UX/UI enhancements across 20+ website pages by optimizing layouts, navigation, and content presentation to improve usability and digital consistency.
- Increased user engagement by 28% through responsive interface enhancements, accessibility improvements, and streamlined content workflows.
- Coordinated cross-functional website improvements and responsive design best practices, resulting in faster, more accessible, and user-friendly digital experiences.

Relevant Skills: UX/UI Design • Website Coordination • Responsive Web Design • Accessibility • Content Management • Stakeholder Collaboration • Performance Optimization

Senior UI Developer | Capital Group | Jan 2020 – Jul 2020

- Modernized high-traffic investment platforms using React, TypeScript, and component-based UI architecture, enhancing user experiences across enterprise financial applications and supporting scalable frontend delivery.
- Improved application engagement by 25% through optimized React interfaces, performance enhancements, and responsive design improvements across critical user journeys.
- Enhanced digital accessibility by implementing WCAG-compliant UI patterns, cross-browser testing, and analytics integrations, improving user experience insights and content optimization.

Relevant Skills: React, TypeScript, Front-End Architecture, Component-Based UI, Responsive Design, Performance Optimization, WCAG Accessibility, Cross-Browser Testing, UI/UX Development, GA4, Adobe Analytics

EDUCATION

Bachelor of Engineering in Electronic Engineering

Kingston University, London, United Kingdom

CORE LINKEDIN SKILLS

React • TypeScript • JavaScript • Next.js • Front-End Development • Generative AI • OpenAI API Integration • Prompt Engineering • Drupal CMS • Adobe Experience Manager • HTL • UX/UI Development • Responsive Web Design • REST APIs • GraphQL • Node.js • Full-Stack Development • Front-End Architecture • Performance Optimization • Accessibility (WCAG) • CI/CD • Automated Testing • Cross-Browser Compatibility • Agile/Scrum • Technical Leadership • Stakeholder Management • Client Communication • Cross-Functional Collaboration • Enterprise Web Development