

Nathan Keeys - Senior Frontend Engineer | Accessibility & Creative Tech
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Education: Virginia Commonwealth University
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Senior frontend engineer with 10+ years of experience building accessible, responsive, and user-centered web applications across healthcare, government, advertising, and cultural organizations. Specializing in React, TypeScript, frontend architecture, web accessibility, and healthcare technology. Proven track record leading cross-functional initiatives, mentoring engineers, improving WCAG compliance, and delivering scalable digital products that support complex user workflows and clinical operations.

Software Engineer - Coforma

August 2022 - Present

1. Using React, TypeScript, Redux and React Hook Forms, I built complex accessible healthcare workflows with persistent state management, form validation, responsive design patterns, and cross-browser support for a healthcare data analytics platform.
2. Led a comprehensive accessibility audit and remediation effort for a clinical-facing patient appointment viewer application, partnering with designers, product stakeholders, and engineers to identify WCAG 2.2 AA compliance gaps, improve screen reader support, and establish scalable accessibility testing practices.
3. Built accessible PDF generation features allowing clinicians to customize and print patient appointment data.
4. Delivered complex full-stack features using React, TypeScript, TanStack, FastAPI, and REST APIs while collaborating in Agile development cycles to support healthcare workflows, EHR integrations, and scalable frontend architecture.
5. Authored engineering documentation covering WCAG compliance, screen reader testing, and accessibility validation workflows while leading remediation efforts that resolved 75+ accessibility issues across the platform.
6. Collaborated closely with product managers, designers, and backend engineers through Agile ceremonies, code reviews, and technical planning sessions to deliver accessible, user-centered healthcare applications

Frontend Engineer - Accenture Federal Services

December 2019 - July 31, 2022

1. Led a three-person frontend engineering team responsible for delivering accessible, responsive user experiences for the FBI Jobs platform, providing technical leadership, architecture guidance, code reviews, and stakeholder communication.
2. Developed and maintained frontend features for a Drupal-based website, collaborating with backend, full stack developers and product owners. I led the technical feasibility analysis for a major Drupal version upgrade, creating a presentation that evaluated migration risks, module

compatibility, architectural implications, and recommended an execution roadmap.

3. Built a React and TypeScript-based checkout system for a conservation rewards program application.

Frontend Developer - Westat (Temp Contractor)

October, 2019 - December, 2019

1. As a contractor, I built a Drupal-based frontend for a health resource website sponsored by the NIH. I worked closely with a small design team implementing Drupal custom theming, accessible components, and PHP post-processing.

Owner / Creative Technologist / Educator - Digital Anthro

Founded 2018 - Present

Digital Anthro is an independent practice providing consulting, development, and education services focused on user interface engineering, accessibility, and immersive digital experiences.

Creative Coding Instructor — Women Who Code Tokyo (2023)

Designed and delivered a creative coding workshop for members of the Tokyo chapter, introducing interactive web technologies and generative design concepts.

Three.js Fundamentals Instructor — The Collab Lab

Developed and taught a virtual workshop covering Three.js fundamentals, 3D graphics concepts, and interactive web experiences.

Creative Technologist - RP3 Agency

Aug 1, 2017 - September 2019

I worked as a hybrid UI/UX designer and frontend developer building prototypes for web and some onsite work for physical experiences. I developed custom WordPress themes and webpages, designed UX mockups and wireframes and collaborated with the design department during concept and prototyping phases. I also led client presentations on UX flows, articulating user journeys while advising on technical feasibility, architectural trade-offs, and implementation scope.

Technical Skills

Frontend: HTML5, CSS3, JavaScript (ES6+), TypeScript, React, Next.js, Vue, Redux, Zustand, TanStack Query, Responsive Design, Mobile-First Development

Accessibility: WCAG 2.2 AA, WCAG 2.1 AA, ADA, Section 508, Semantic HTML, ARIA, NVDA, VoiceOver, Accessibility Audits, Accessibility Remediation

Testing: Jest, React Testing Library, Cypress, Accessibility Testing, Automated Testing, Cross-Browser Testing

Backend: Node.js, FastAPI, Python, PHP, REST APIs, Drupal

Architecture & Performance: Frontend Architecture, Component Libraries, Design Systems, Server-Side Rendering (SSR), Performance Optimization, Core Web Vitals

Collaboration: Agile, Scrum, Code Reviews, Technical Documentation, Cross-Functional Collaboration, Stakeholder Communication

Design & Immersive: Figma, Three.js, WebXR, WebGL, TouchDesigner

AI Tooling: GPT, Claude Code, Claude Cowork, CoPilot

Domain Knowledge: Working with EHRs (EPIC, Vista, Cerner)

Certifications

Javascript Development Certification - General Assembly
May 2016 - Aug 2016

Front-End Web Development Certification - General Assembly
Sep 2015 - Dec 2015

TouchDesigner Operation Foundations - The Interactive & Immersive HQ - Nov 2025

Awaiting Results - IAAP CPACC - Certified Professional in Accessibility Core Competencies

Other Speaking Languages

JLPT5 Level Japanese