

Michaux S. Kelley

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PROFESSIONAL SUMMARY

Senior full-stack software engineer with 10+ years building production React, Redux, Redux toolkit, Zustand, Next.js, and TypeScript applications for enterprise healthcare, security, retail, and marketplace platforms. Specializes in performant, accessible (WCAG 2.1 AA) UI at scale, Node.js service design, AWS cloud architecture (EC2, S3, CloudFront, Lambda), and disciplined testing practices that routinely exceed 90% coverage. Actively integrates AI-assisted development workflows (GitHub Copilot, Claude Code, MCP servers, prompt and context engineering) to accelerate delivery, raise code quality, and mentor engineering teams. Targeting Senior, Lead, or Principal engineering roles with a full-stack or front-end focus.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES2022+), HTML5, CSS3, Python, Bash

Frontend: React 19, Next.js (App Router, Server Actions), Tailwind CSS, shadcn/ui, Material UI, CSS Grid, CSS Flexbox, Redux Toolkit, Zustand, React Hook Form, Zod, Framer Motion, Formik, Yup, responsive design, accessibility (WCAG 2.1 AA)

Backend: Node.js, Next.js API routes, Server Actions, Express, Django, Auth.js v5, RESTful API design, OpenAPI/Swagger, Stripe and Stripe Connect, Prisma ORM, MongoDB Atlas

Cloud and Infrastructure: AWS EC2, S3, CloudFront CDN, Lambda, API Gateway, Route 53, SES, SAM; Docker; Vercel; Gatsby Cloud; CI/CD with GitHub Actions and Husky hooks

Testing: Vitest, Jest, React Testing Library, Playwright, Cypress, Storybook; integration and E2E test design; coverage and performance profiling

AI-Assisted Development: Claude Code, GitHub Copilot, Microsoft Copilot, Windsurf/Cascade, Skills (custom, obra/superpowers, and mattpocock/skills) MCP servers (Context7, SequentialThinking, Figma, Markdown, Memory, chrome-devtools), prompt and context engineering, Spec-kit

Tools and Practices: Git, GitHub, GitLab, GitHub Actions, VS Code, Claude Code, Windsurf, Figma, Agile, Scrum, Kanban, code review, mentorship, technical writing, Lighthouse performance auditing

PROFESSIONAL EXPERIENCE

Senior Application Development Engineer (Contract)

TEKsystems at Centene Corporation | Remote | 07/2025 – Present

- Deliver responsive single-page applications and shared UI libraries in React 19, Zustand, Node.js 24, and Next.js supporting premium payments, claims retrieval, and claims historical data across multiple healthcare lines of business.
- Led a company-wide remediation for recent critical React, Next.js, and Node.js CVEs after escalating the vulnerabilities to leadership; coordinated migration of React 18 applications to current versions across Centene projects.
- Raised automated test coverage from ~60% to 90–95% across all metrics (exceeding Centene's 80% standard) by introducing Vitest, identifying long-running tests with AI-assisted analysis, and closing coverage gaps.
- Built AWS Lambda handlers in Backend-For-Frontend repositories for Node.js microservices; documented and designed APIs using the OpenAPI Specification and Swagger.
- Improved accessibility and localization across all lines of business to WCAG 2.1 Level AA in custom React components using the enterprise design system; verified with macOS VoiceOver and Google Lighthouse.

- Selected as an early participant in the Windsurf (Cascade + MCP) pilot that drove company-wide adoption; integrated SequentialThinking, Context7, Figma, Markitdown, Memory, and chrome-devtools MCP servers into planning, audit, and implementation workflows.
- Presented GitHub Copilot, prompt and context engineering, and MCP servers to hundreds of developers and leadership; authored Confluence knowledge-base articles on technical debt and AI-assisted engineering patterns.
- Standardized developer workflows by creating Git pre-commit and pre-push Husky hooks for owned projects, saving several developer-hours and hundreds of CI build minutes per week.
- Mentored and paired with junior engineers on React, TypeScript, Next.js, and responsible AI tooling usage.

Founding Engineer (Open-Source Side Project)

Fake Four Records / Boudreaux – Brave New Org | Remote | 01/2025 – Present

- Architect and build an MPL 2.0 open-source music marketplace platform (github.com/braveneworg/boudreaux, fakefourrecords.com) for an independent record label, supporting streaming music and video, downloads, purchases, and paid subscription tiers.
- Stack: Next.js App Router, React 19, Context API, TypeScript, Tailwind CSS, Prisma ORM, MongoDB Atlas, Auth.js v5, Stripe Connect (marketplace payouts), and AWS SES transactional email.
- Infrastructure: Dockerized Next.js deployed on AWS EC2 (Ubuntu), with S3 and signed CloudFront URLs for audio delivery, Route 53 DNS, and AWS Lambda (SAM-deployed) handling Stripe webhook processing with idempotency and raw-body signature verification.
- Built a custom React audio player from scratch (transport controls, seekbar, playlist drawer, shuffle/repeat, keyboard shortcuts, Media Session API) modeled on Spotify, SoundCloud, and Bandcamp UX patterns.
- Authored 6,000+ Vitest unit tests at 90%+ coverage across all metrics, executing in under 12 seconds; added Playwright end-to-end suites (~2–3 minutes) for critical purchase and playback flows.
- Share Zod schemas, TypeScript types, and Server Action contracts across front and back end; use React Hook Form and Zod for all form validation.
- Collaborate directly with label artists, a graphic designer, and a business analyst to translate product requirements into shippable features.

Senior React Developer

Limbik | Remote | 02/2025 – 06/2025

- Scaffolded and architected the next generation of Limbik's flagship disinformation-mitigation application using Vite, Minimal UI Kit (MUI), Zustand, React Hook Form, and Zod.
- Delivered Next.js React components for filtering by demographic attributes and routing the results through cognitive AI models to measure messaging resonance.
- Built organization and user settings components in TypeScript with Material UI, Yup, and Formik; collaborated on secure, performant RESTful APIs with backend engineers.

Senior React Developer (Contract)

TEKsystems at Ameritas | Lincoln, NE (Remote) | 10/2023 – 12/2024

- Developed responsive web applications in React, Redux, TypeScript, and Next.js using complex state management, including dashboards, reports, infographics, and sales tools using HTML5, CSS Grid, and Flexbox.
- Designed and consumed RESTful APIs in collaboration with backend engineers; secured PII with Web Crypto APIs; maintained an internal custom React component library.
- Managed application state with Redux, Redux Toolkit, and Redux Persist; authored WCAG-compliant accessible components.
- Created a Next.js seed template adopted as the baseline for future company React projects.

React Developer

NCR Voyix (via Optomi) | Atlanta, GA (Remote) | 09/2020 – 07/2023

- Built a responsive self-checkout system in React, Redux, Mobx, and TypeScript targeting both mobile web and Electron, collaborating with designers in Figma to produce custom MUI-based components.
- Owned state and workflow orchestration with Redux, Redux Toolkit and Context API; tuned performance using React DevTools and the Redux extension.
- Added a loyalty and rewards subsystem granting real-time discounts and points during checkout.
- Wrote unit, integration, and E2E tests with Jest, React Testing Library, and Cypress to ensure maintainability and reliability.

Senior React Engineer (Contract)

Aerotek / EASi at Cisco | RTP, NC (Hybrid) | 03/2019 – 03/2020

- Integrated React components into a Ruby on Rails application that gated every Cisco software release for vulnerability and licensing compliance.
- Partnered with designers and backend engineers to rebuild UI, reports, and forms in HTML5, CSS, and ES6; improved page load performance using Lighthouse and React DevTools.

Senior Software Engineer

MercuryGate International | Cary, NC | 09/2018 – 01/2019

- Shipped features and bug fixes for the flagship transportation management system using React and ES6; supported clients and backend teams on cross-application issues.

Earlier Experience

2014 – 2018

- Senior React Developer at MetaMetrics (10/2017 – 05/2018); Senior Front-End Engineer at Distil Networks, now Imperva (06/2016 – 10/2017); Senior Software Engineer at Pointsource LLC (07/2015 – 04/2016); Senior Front-End Developer at BCBSNC via Tapfin-Manpower (04/2014 – 06/2015). Delivered React, Vue, AngularJS, Backbone.js, and Django applications; authored design systems and style guides; integrated with RESTful and hybrid mobile platforms. Details available on request.

EDUCATION

Master's-Level Coursework in Software Engineering | East Carolina University, Greenville, NC | 05/2010

Bachelor of Arts in Spanish, Minor in Business | University of North Carolina Greensboro, NC | 05/2005

OPEN-SOURCE & WRITING

- Boudreaux / Fake Four Records – Founding engineer, MPL 2.0 open-source music marketplace (github.com/braveneworg/boudreaux).
- Contributor to react-starter-kit (kriasoft) and mean.io (linnovate).
- Technical writing at mkelley33.com, including “How to create a Next.js blog using MDX,” “Exploring ES2022 models with the tsx REPL,” and “Google reCAPTCHA v2 with Formik and Node.js.”