

Christopher Rau

Software Engineer | React | TypeScript | Capacitor | Web & iOS Apps in Production

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Professional Summary

Product-minded Software Engineer with a proven track record of building and shipping production web and iOS applications using React, TypeScript, and Capacitor. Demonstrated full-lifecycle ownership — from architecture and API integration through deployment, testing, and App Store launch. Brings a distinctive combination of technical execution, product intuition, and 17 years of program management and communication experience translating across technical and non-technical teams. Actively uses AI-assisted development tools (Cursor and Claude) within a structured, disciplined workflow — accelerating development without replacing engineering judgment.

Technical Skills

Frontend: React | TypeScript | JavaScript (ES6+) | Next.js | TailwindCSS | HTML5 | CSS3 | Zustand | Capacitor (iOS deployment)

Backend & APIs: Node.js | Express | REST APIs | Supabase (PostgreSQL, Auth, RLS) | MongoDB | Convex

Testing: Vitest | Jest | React Testing Library

Cloud & DevOps: Vercel | AWS Amplify | CI/CD Pipelines | Git | GitHub

AI-Assisted Dev: Cursor and Claude - Structured workflow including pre/post-session logs, single-purpose feature branches, Cursor prompt guides, and plain-language summaries

Featured Projects

Mountain Pathway | React | TypeScript | Capacitor | Supabase | TailwindCSS

Web and iOS journaling app — Live on the Apple App Store April 5, 2026 | Solo developer, end-to-end ownership

App Store / Web Version

- Conceived, designed, and shipped a production web and iOS journaling app, owning the full lifecycle from problem definition and UX design through Capacitor-based iOS deployment and App Store launch
- Designed a guided 9-step journaling experience optimized for stillness and focus, translating abstract user needs into a clear, intentional interaction flow across both web and mobile
- Resolved 12+ production issues, including auth security vulnerabilities, deep link configuration, keyboard handling, and iOS-specific layout constraints — ensuring reliable performance across platforms
- Migrated backend from local storage to Supabase (PostgreSQL, Auth, RLS), enabling secure persistence and real-time synchronization for scalable multi-user use
- Executed a performance sprint: extracted six custom hooks, added 41 Vitest unit tests across 13 test files, and optimized Supabase queries — maintaining a passing test suite through every feature addition
- Built a secure server-side account deletion API route using Supabase Admin with service role key authentication — implementing bearer token verification and hard delete to satisfy Apple App Store Guideline 5.1.1(v)
- Resolved Apple App Store Guideline 3.1.1 binary scanner rejection by implementing a build-time component stub replacement pattern — completely excluding donation-related strings from the iOS JavaScript bundle at compile time
- Navigated three Apple App Store rejections across four builds — diagnosing each rejection, implementing targeted fixes, and resubmitting — resulting in final approval and launch on Easter Sunday, April 5, 2026

Pickleball Court Hub | Next.js | Node.js | Express | Convex | Google Maps APIs

- Built and shipped a nationwide court discovery platform with a custom data pipeline, map-based search, and real-time Convex persistence
- Implemented coordinate-based deduplication logic, reducing duplicate records by ~90%; deployed and monitored with CI/CD workflows
- Designed and built a mobile-first interactive map experience using Google Maps APIs — enabling location-based court discovery across all 50 states
- Architected a real-time Convex backend with user authentication, court submission, and admin moderation — supporting a scalable multi-user community platform

Professional Experience

Software Engineer | WebDevbyRau | Nashville, TN | 2023 – Present

- Shipped Mountain Pathway and Pickleball Court Hub as a solo developer — full lifecycle ownership from architecture through production deployment and post-launch iteration (see Featured Projects)
- Optimized web performance across client projects, achieving 25% average PageSpeed improvements via Lighthouse-driven optimization — 0ms TBT, 96/100 Best Practices, 89/100 Accessibility

- Comfortable taking broad ownership across frontend, backend, and deployment — moving where the work needs to go on small teams.
- Maintained a structured AI-assisted development workflow using Cursor and Claude — pre/post-session logs, single-purpose feature branches, one logical commit per change — producing reviewable, maintainable output
- Delivered a Shopify e-commerce redesign for PMJ Printing LLC — improving desktop performance to 99% and earning a published client testimonial

Program Manager & Educator

Middle Tennessee Public Schools | Nashville, TN | 2008 – Present

- Coordinated across students, staff, and administrators to translate program goals into clear, executable plans
- Developed strong communication skills explaining complex concepts to non-technical audiences — a skill that transfers directly into cross-functional engineering teams

Education & Training

- Google IT Automation with Python Certificate, 2026
- Web Dev Incubator – Software Development Mentor Program, 2025
- FreeCodeCamp – Responsive Web Design Certificate, 2024
- Codecademy – Frontend Engineer Certificate, 2023
- M.S., Exercise Science & Health Promotion – PennWest California, 2010
- B.S., Health & Physical Education – Lipscomb University, 2008

Leadership & Service

- **Eagle Scout**, Boy Scouts of America (1989) – Early leadership experience in project planning, team coordination, and community service.