

Cole Martindale

Full-Stack Software Engineer, React and TypeScript

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SUMMARY

Full-stack engineer with four years shipping production React and TypeScript: senior engineer leading the front end of WolffTrax, a 211,000-line real-estate platform at The Wolff Company, and co-founder of Myelin AI, where I built the whole platform: 173,000 lines of TypeScript, real-time voice over WebRTC, Stripe billing, seven third-party integrations, CI/CD, monitoring, and customer support, now serving 149 users across 127 organizations. I take a project from requirements through architecture, implementation, testing, and deployment, and I stay on the support rotation that follows.

EXPERIENCE

Myelin AI, Inc. · Co-Founder and Lead Engineer (sole engineer)

Sept 2025 – Present · Mesa, AZ

AI sales-coaching platform: reps practice live voice calls against AI prospects generated from their own real calls. vmyelin.ai

- Designed and built the platform end to end: Next.js 16 / React 19 / TypeScript monorepo (product app, marketing site, shared UI package), a 61-model Postgres schema on Neon with 123 Prisma migrations, 198 API routes, 165 components, and 97 test files. 149 users, 127 organizations, 1,200+ practice sessions, 850 real calls analyzed.
- Built the real-time practice session: WebRTC audio against OpenAI's Realtime API with natural interruptions, dual-track recording, live transcript, and in-call coach suggestions, targeting sub-400 ms turn-taking.
- Built the call-intelligence pipeline: recordings arrive from Zoom, Fathom, Fireflies, or upload; AssemblyAI diarizes; LLM analysis extracts objections, deal-break moments, and each rep's winning formula; scores push to HubSpot and Slack, and customers receive signed outbound webhooks. Queued work runs on QStash with a recovery cron.
- Owned billing: Stripe subscriptions with metered overage, seat sync, trials that end by clock or by minutes, a Whop-backed partner and affiliate program, and an admin-editable plan catalog. Modeled and tested all eight user types (admin, partner owner, partner-referred, org owner, org-paid rep, self-paid rep, solo, trial).
- Set up production discipline: GitHub Actions CI (type check, lint, Vitest with coverage posted on PRs), a staging environment with PR-based promotion to production, idempotent migrations that survive retries, Sentry errors plus cron monitors on all eight Vercel crons, PostHog analytics, and Playwright end-to-end suites for ingest and integrations.
- Wrote the design system and style guide (tokens, type scale, contrast floors, motion, loading states) and the shared primitives that enforce it across both apps.
- Hardened security: AES-256-GCM encryption of integration credentials at rest, PII redaction before model calls, signed webhooks, an admin audit log, and security documentation for enterprise buyers.
- Run support directly, with same-day fixes on customer-reported bugs, and built an AI-assisted engineering workflow: repo-level agent instructions and custom Claude Code skills that check migration idempotency, API allowlists, and the user-type matrix before a change ships, with Codex as a second reviewer.

The Wolff Company · Senior Software Engineer

Nov 2022 – Present · Scottsdale, AZ

Multifamily real-estate investment firm (300+ employees, 21,000+ units). Four-person software team building WolffTrax, the firm's deal, portfolio, and investment-committee platform, and HRTrax.

- Lead frontend engineer on WolffTrax: React 18, TypeScript, React Query, styled-components, AG Grid Enterprise, Recharts, and multi-tenant Azure AD sign-in, at 211,000 lines across 608 components. Top contributor since 2024. Across 14 repositories: 528 pull requests merged, 254 teammate pull requests reviewed, 372 work items delivered (981 story points) in Azure DevOps, with pipelines to Azure Static Web Apps for staging and production.
- Gathered requirements from deal teams, IT, and executives, wrote the design docs, and shipped the features the deal teams run on: portfolio views with pivot mode, pagination, saved grid state, and optimistic column management; deal summary, project budget, and schedule grids with background forecast recalculation; comparable-property analysis; ESG and asset-management inline editing; a deal site map with retail points of interest and distance rings; approval-package comments, reviewers, and PDF export.
- Full stack in .NET 6 and GraphQL (GraphQL.NET, EF Core, SQL Server): 207 commits adding portfolio-view pagination, interest accounts and forecast rules, approval email rules, a distribution-curve API, and comparable-property endpoints, with schema changes shipped as SQL Server database projects through the data pipeline.

- Built the WolffTrax mobile app in React Native for iPhone and iPad (246 commits): approval-package review with MSAL sign-in, pinch-zoom exhibits, dev, staging, and production environments, and an Azure Pipelines job that signs the IPA and publishes to TestFlight.
- Built the WolffGPT chat experience (streaming reveal, tool-call status labels, deal linking) over a FastAPI agent that answers questions by calling the GraphQL API; contributed to the Python backend.
- Built the Tech Team Roadmap app solo (React plus an ASP.NET Core API wrapping Azure DevOps with story-point rollups, later an IT dashboard with Grafana), set the team's branch, pull-request, and review conventions, and wrote the company guide and agent skill that let non-technical staff build small internal tools with AI on approved patterns.

Independent Consulting · Full-Stack Engineer

June 2022 – Present · Mesa, AZ

- Bright Home Energy (solar installer): built the internal portal and sales-rep onboarding workflow, a multi-step intake, admin review, DocuSign envelopes via JWT auth with an HMAC-verified Connect webhook driving a seven-state pipeline with an audit trail, magic-link auth, Resend transactional email, a Markdown CMS for staff pages, and a daily digest cron.
- Accordant Investments (institutional real-estate investment manager): HubSpot CMS theme redesign, including the v2 template chain, mega-nav, auth pages, due-diligence documents gated by share class, the Veris Residential partner launch, a 13-page page-weight and SEO audit, and embedded fund-performance charts coordinated with SS&C.
- AgriTech Atlas: neutral search engine for 278 curated ag-tech products. Hybrid ranking fuses Postgres full-text search, pgvector embeddings, and an LLM that maps each query onto the product taxonomy; Clerk-gated admin curation tools; Sentry.
- Bloom Enterprise (LinkedIn outreach SaaS): built the Next.js front end over a Django and Celery API: campaign management, infinite-scroll chat with optimistic sends, AG Grid tables.
- Smaller launches: a three-design, one-config website template with Playwright visual tests; Shopify theme work for a trading-card store; client sites for dental, electrical, and rental businesses.

Bright Home Energy · Efficiency Manager

June 2019 – Feb 2022 · Tempe, AZ

- First employee. Built a new department and led a team of five managing operations for 300+ residential solar installations while the business grew tenfold in two years.

SKILLS

Frontend: React 19, Next.js 16 (App Router, Server Components, Server Actions), TypeScript, Tailwind CSS v4, shadcn/ui and Radix, React Query, React Native and Expo, AG Grid, Recharts, Framer Motion, WebRTC, design systems, accessibility

Backend and data: Node.js, Prisma, PostgreSQL (Neon, pgvector), REST and GraphQL, C#/F.NET, Python and Django, Stripe, Qstash, AWS S3, Vercel Blob, Resend

Delivery: GitHub Actions, Vercel, Azure DevOps, Docker, Vitest, Playwright, Sentry, PostHog, Neon branching, idempotent migrations, code review

AI tooling: OpenAI Realtime and Responses APIs, AssemblyAI, embeddings and hybrid search, Claude Code, Codex, prompt evaluation

EDUCATION

App Academy, Software Engineering	2022
Mesa Community College, Audio Production Technologies	2020