John Christian Cabrera

Full-stack Developer & AI Integration Engineer

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SUMMARY

I connect AI to the systems a business already runs on. Since early 2023 I have shipped production web apps in TypeScript for clients across field services, home construction, events, e-commerce, finance and visa services. At Pool Pros I built the internal operations platform: five apps on one backend behind one sign-in and one permission model, eight first-party integrations with field-service, project-management, CRM, accounting, time-tracking and telephony vendors, and the AI layer on top (multi-agent assistants, a RAG knowledge base, two MCP servers and durable lead-routing workflows). Years of technical support before and alongside that, so I read logs, reproduce bugs and explain a product to the person stuck on it.

Open to full-time remote roles: AI automation and integration engineering · solutions / implementation engineering for SaaS · React and Next.js frontend.

EXPERIENCE

Senior Full-stack Engineer — Pool Pros · pool-pros.com · part-time, 30–40 hrs/week — Sep 2025 – Present

Internal operations platform for a pool construction and service company, used by ops, field service, sales and support.

PLATFORM AND INTEGRATIONS

- Built a five-app monorepo (owner operations cockpit, mobile-first field-crew onboarding and training app, subcontractor forms portal, OAuth-protected tool host, Cloudflare Worker) on a shared Convex backend of 243 tables.
- Consolidated five separately deployed Next.js apps into one shell behind a single SSO origin and retired a sixth: six deployments down to one.
- Wrote eight first-party integration packages against field-service (PoolBrain), construction project-management (JobTread), GPS time-tracking (Workyard), CRM (GoHighLevel), accounting (QuickBooks) and telephony APIs, driving 15 scheduled sync and rollup jobs with idempotent writes and retries.
- Migrated the data layer twice (Prisma to Supabase, then Supabase to Convex) and replaced the identity provider (Clerk to Better Auth) in a dozen staged, individually reversible phases against live production.
- Designed a permission system enforced at the backend perimeter, with a tripwire test that fails the build when a new endpoint ships ungated. 2,700+ commits and 495 test files in the first six months.

AI PLATFORM

- AI lead classification and routing: every inbound lead (web form, referral, phone call) runs through one durable workflow that sets pipeline, deal value and notifications. A typed classifier decides and the generative model only describes, so prompt injection in a form field cannot flip routing. Escalate-only and fail-open; verified live re-routing a mis-ticked pool build from a $75 service card to a $50,000 sales opportunity.
- Two MCP servers: an OAuth-protected tool host, and a code-mode server on Cloudflare Workers that replaces 126 typed tools across two vendor APIs with `search` and `execute`; model-written code runs in a sandboxed Dynamic Worker with no network and never sees an API key.
- Multi-agent system inside the company's team messenger: a company-wide assistant, an executive agent for the owner, and department agents that delegate to each other, grounded in a RAG knowledge base that ingests team chat and cloud documents.
- Cut summarisation latency 75% (3.5 s to 0.9 s) by moving the describe step to a smaller zero-retention model. Full LLM observability (tokens, cost, latency, PII-redacted traces) through the Vercel AI Gateway and a central model registry, so a model swap is an ID change.
- Also: AI résumé screening into the hiring channel, voice-to-task extraction, nightly push of GPS-verified time cards into project management, and three marketing sites for the company's sub-brands.

TypeScript · Next.js · React · Convex · Better Auth · Turborepo · Vercel AI SDK & Gateway · MCP · Claude · Gemini · OpenAI · Cloudflare Workers & R2 · PostHog · Vitest

Technical Support Specialist — ClickUp — Nov 2023 – Present

- Started in customer support and was promoted to technical support for the ClickUp platform: reproducing reported bugs, reading logs and API responses, and bridging customers and engineering. Runs alongside the engineering work above.

Full-stack Developer — The Mind Artists · themindartists.com — Mar 2026 – Aug 2026

- Built a web platform for health and wellness coaches to run their practice: onboarding, scheduling and client resources in one place. Next.js, Supabase, Vercel.

Full-stack Developer — Geospatial Solutions LLC — Jul 2025 – Sep 2025

- Turned client concepts into responsive production web applications, deployed on Google Cloud and Firebase.

Frontend Developer — 9epoch.ai — Jan 2025 – Mar 2025

- Redesigned the sign-in and sign-up flows and rebuilt the pricing component architecture for maintainability. React, TypeScript, Tailwind.

Founder & Full-stack Developer — Printrail · printrail.com · side projects — Jul 2023 – Present

- Launched an SEO-optimized landing page for the printing business, then Steven, a wedding event platform: RSVPs, guest lists, budget tools, QR photo uploads, timeline, tasks and multi-user collaboration. Next.js, Supabase, Vercel.

Full-stack Developer / IT (Freelance) — MGI UK Global Visa Services — Jan 2023 – Oct 2023

- Built a web-based invoicing system and a UK visa intake form, reducing manual data entry; configured HubSpot CRM and Office 365 for a team of 10+. Next.js, Prisma, MongoDB, MySQL.

Support Agent, then Trainer — Concentrix — 2017 – 2023

- Six years in call-centre technical and customer support, ending in the training department.

SKILLS

Languages & UI	TypeScript, React, Next.js, Tailwind CSS, shadcn/ui, TanStack Query and Table, Turborepo, Vitest
Backend & data	Node.js, Convex, Supabase, Neon, PostgreSQL, Prisma, MongoDB
AI & LLMs	Claude, OpenAI, Gemini, Vercel AI SDK and Gateway, MCP, RAG / vector search, structured output, durable workflows (Convex Workflows, Cloudflare Workflows, trigger.dev), LLM observability (PostHog)
Integrations	REST and webhooks, OAuth, idempotent sync jobs; PoolBrain, JobTread, Workyard, QuickBooks, GoHighLevel, HubSpot, ClickUp
Auth	Better Auth, Clerk, Supabase Auth, Cloudflare Access
Deploy & infra	Vercel, Cloudflare Workers, R2, D1, Workers AI, Google Cloud, Firebase
Agentic coding	Claude Code, Codex, Cursor, with review, tests and regression guards

EDUCATION & CERTIFICATION

BS Information Systems — Xavier University – Ateneo de Cagayan, 2017

CCNA — Cisco, 2020