

Adam Berger

Full-Stack Software Engineer · Applied AI

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PROFILE

Full-stack software engineer with two years' professional experience, now building and shipping my own AI SaaS. I take products from greenfield architecture to live production: sole engineer behind a global wildlife GPS/telemetry platform, and founding engineer of Relay, a live AI email-automation product with a Python/FastAPI RAG pipeline and multi-model LLM routing. Strong across TypeScript/React, Node, Python and PostgreSQL, with hands-on applied-AI work (RAG, embeddings, multi-model orchestration, MCP). I own features end-to-end, from design and build through to deploy and support, and want to bring that breadth to a strong engineering team.

CORE SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Java

Frontend: React, Next.js, Tailwind CSS, Electron, Radix/shadcn

Backend: Node.js, Express, FastAPI, REST APIs, Prisma, SQLAlchemy

Databases: PostgreSQL, pgvector, Redis, MS SQL Server

AI / ML: LLM application development, RAG, embeddings, multi-model orchestration (Claude / OpenAI / Gemini), LangChain, MCP, prompt engineering

Cloud / DevOps: GCP (Cloud Run, Pub/Sub, Cloud Tasks), AWS, Vercel, Hetzner, Docker, CI/CD, Prometheus

Testing & practice: Vitest, Playwright, pytest, system design, Agile

EXPERIENCE

Founding Engineer: Relay (self-employed)

Nov 2025 – Present

Remote. AI email-automation SaaS that drafts accurate support replies from a company's own knowledge base. Built solo, live at userelay.ai with a paying customer.

- Designed and built a live, multi-tenant AI email platform single-handed, end-to-end: Next.js 16 / React 19 front end, Python/FastAPI services, PostgreSQL + pgvector, and Stripe billing.
- Built dual email-sync pipelines integrating Gmail and Microsoft Graph over OAuth, ingesting inboxes concurrently via Google Pub/Sub with AI classification and reply generation, processing ~14,000 emails in production.
- Implemented a RAG pipeline (OpenAI embeddings + pgvector) over user emails and uploaded knowledge bases, with multi-model LLM routing across Claude, GPT and Gemini and custom MCP tool servers.
- Re-architected infrastructure from a GCP Kubernetes stack (Cloud SQL, GKE, Cloud Run) to a single Hetzner VPS, cutting hosting costs by about 91% (from roughly \$700 to \$60 per month).
- Instrumented services with structured logging, Prometheus metrics and a ~90% test-coverage target (pytest, Vitest, Playwright).

Software Engineer: Africa Wildlife Tracking

Oct 2024 – Nov 2025

Pretoria, South Africa (Hybrid). Sole engineer on a greenfield rebuild of a global wildlife GPS/telemetry tracking platform.

- Sole engineer and UI/UX designer for the full rebuild that replaced a slow legacy system, owning architecture, backend, frontend and an internal desktop app end-to-end, and delivering about 90% faster performance with far greater error visibility and maintainability.
- Built backend services to ingest, process and store high-volume GPS/telemetry data from thousands of tracking devices deployed across every continent, with APIs and background pipelines for real-time and historical tracking, reporting and analytics.

- Designed and built the client-facing web app with map-based data visualisation for operational and conservation teams, plus an Electron desktop app for managing data in low-connectivity field conditions.
- Stack: Next.js, React, TypeScript, Node/Express, PostgreSQL, Google Cloud.

Software Engineer: Cardinal (Pty) Ltd / CustomApp

Jul 2023 – Sep 2024

Johannesburg, South Africa. Full-stack developer in an 11-person engineering team; led two flagship products.

- Led development of Mobility, an insurance-quoting platform for taxi operators, covering client and quote management plus a rating/pricing engine driving quote calculations.
- Led development of a WhatsApp configuration tool for building custom WhatsApp applications, integrating with internal data, logging and user management.
- Directed and reviewed the work of 1 to 3 developers on larger features, and onboarded, trained and mentored a new joiner.
- Built across the stack with PHP/Laravel, Node.js, JavaScript and MS SQL Server on AWS (Lambda, EC2, RDS, Amplify, Route 53).

EDUCATION

BSc Information & Knowledge Systems

2022 – 2023

University of Pretoria · Computer Science with data-science electives. Completed ~1.5 years before moving into full-time engineering.

IEB National Senior Certificate (Matric)

2021

Crawford College Sandton

Right to work: British citizen, with full right to work in the UK.