

# Adam Seifert-Page

adamseifertpage@gmail.com | adamseifertpage.com | github.com/admsftpge

Backend engineer with experience building secure, scalable APIs and services deployed on cloud infrastructure. Previously spent 10 years in music production shipping creative projects end-to-end before moving into software.

## Skills

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**Languages:** Python, JavaScript / TypeScript, Bash, SQL

**Frameworks & Databases:** FastAPI, Flask, Next.js, Node.js, PostgreSQL, Firestore

**Infrastructure & Tools:** Docker, GCP, AWS, Terraform, Git, GitHub Actions, Supabase, Cloudflare

**AI & ML:** LangChain, Pinecone, Vertex AI, Dialogflow CX

## Experience

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### Backend Engineer, Phantom – London

Sep 2024 – Present

- Built the backend for a Netflix Stranger Things location-based activation in London, handling geofenced QR scanning, vending machine code dispensing (28,000 codes across 7 days), and prize draw mechanics using Flask and AWS
- Developed the backend for a Google Store birthday competition across 4 APAC markets, handling real-time score submission, anti-fraud detection, geo-based routing, and automated winner selection using Flask and App Engine
- Shipped a public-facing game for Checkout.com using Flask, Cloud Run, and Firestore, supporting real-time scoreboards and live stats for thousands of users
- Automated brand user queries for YouTube by building a chatbot with Dialogflow CX Playbooks, reducing inbound requests to the Brand Standards team
- Powered AI campaigns for Rightmove and Movember by building FastAPI services that routed user selfies to in-house face swap models running on Vertex AI
- Reduced data loss risk across GCP, AWS, and GitHub by building a backup system that discovered active services and backed up only recently updated repositories

### Freelance Web Developer

2020 – Nov 2024

- Built marketing and portfolio websites using Next.js for 14 clients across retail, manufacturing, and creative industries
- Integrated Stripe payments, Mailchimp, and transactional email (Resend) for small business clients
- Developed a custom inventory and order tracking dashboard for a retail shop
- Migrated business data and infrastructure to GCP, including full cloud migration for a UK steel manufacturer
- Configured Cloudflare for caching and security, managed domains, backups, and Google Analytics

## Projects

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### Musician Finder

musicianfinder.co.uk

- Developed a full-stack classifieds platform connecting UK musicians using Next.js 16, Supabase with row-level security, and Cloud Run behind Cloudflare
- Implemented Stripe integration for promoted listings and a peer-to-peer messaging system with email notifications
- Designed a multi-layer caching strategy with Cloudflare edge caching and aggressive 404 caching to minimise vulnerability scanner traffic hitting origin

### AI Ingredient Safety Chatbot for Pregnancy

- Built a RAG-based chatbot using FastAPI, LangChain, and Pinecone to help users check ingredient safety during pregnancy, with Open Food Facts integration and a Next.js frontend

## Education

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Birkbeck, University of London – BSc Computing (1st)

June 2024