

Mike Fuller

Senior AI/ML Engineer — LLM Integration · Agents · RAG

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Profile

AI/ML engineer and full-stack builder. **MSc Artificial Intelligence (Distinction), University of Bath;** dissertation on confidence calibration of foundation language models; published arXiv paper. Three years shipping ML and Data Science at Nike on PySpark/Databricks, two years building LLM-integrated SaaS at Launchpad, and currently co-founder and AI lead at brandmodal.com — multi-provider agent orchestration across Claude, Gemini, and OpenAI. Equally comfortable architecting agent pipelines and wiring the Next.js / Supabase stack end-to-end. Native English speaker; based in Bogotá with full US-Central time-zone overlap.

Experience

brandmodal (brandmodal.com) Jan 2026 – Present · Remote

AI Engineer · Co-Founder

AI-native brand-building SaaS for SMBs. Two-person founding team; Delaware C-corp via Stripe Atlas.

- Architected and ship the AI layer: **brand-strategy agents, Content Studio GenAI pipeline, AI onboarding**, and a website builder that produces brand-aligned sites from a single intake
- Built multi-provider LLM orchestration across **Claude, Gemini, and OpenAI** using the **Claude Agent SDK, OpenAI Agents SDK, and Vercel AI SDK**, with provider failover and structured-output validation
- Own the full Next.js App Router + Supabase + FastAPI stack: schema, Postgres RLS, Supabase Auth, Stripe billing, Vercel deployment

Stack: Next.js · TypeScript · Supabase · Postgres · FastAPI · Claude · Gemini · OpenAI · Vercel · Stripe

Skills

AI / LLM

OpenAI API · Claude API · Google Gemini · Vercel AI SDK · Claude Agent SDK · OpenAI Agents SDK · Fal.ai · RAG · Async generation pipelines · Prompt & eval design

Machine Learning

PyTorch · PySpark · Databricks · YOLOv5 · OpenCV · LTV / segmentation modelling · Foundation-model calibration (MSc)

Backend

Python · FastAPI · Flask · PostgreSQL · Supabase · REST APIs

Frontend

TypeScript · Next.js (App Router) · React · Tailwind · shadcn/ui

Infra & Auth

Vercel · AWS (S3, RDS, Lambda, Batch) · GCP · Supabase Auth · Stripe

Education

MSc Artificial Intelligence

(Distinction)

University of Bath, UK

2020 – 2023

Dissertation: On the Confidence Calibration of Foundation Language Models

MSc Environmental Acoustics

(Merit)

University of Salford, UK

2010 – 2011

Launchpad

Nov 2021 – May 2026 · Bogotá

Product studio building AI SaaS for retail, real estate, and marketing.

Worked across three product lines over 4.5 years.

Full-Stack AI Engineer — PropLLM (AI Real-Estate SaaS)

Apr 2024 – May 2026 · 2-engineer product team · Product sunset May 2026

- Built and shipped an **AI image platform for realtors, renovators, and homeowners** — virtual declutter, staging, renovation, and AI video walkthroughs — end-to-end to production, with a realtor in early adoption
- Designed async generation pipelines integrating **Fal.ai, Gemini, and Firecrawl** with job queuing, result caching, and credit-based Stripe billing
- Shipped the Next.js + Supabase + Postgres stack front-to-back: auth, multi-tenant data, file storage, image-diffing UI, and Vercel deploys

Stack: Next.js · Supabase · Postgres · Python · Fal.ai · Gemini · Firecrawl · Stripe

Head of Research / AI Product Developer — Brand-Influencer Affiliate MVP

Apr 2024 – May 2026 · Concurrent with PropLLM

- Built a **multi-tenant SaaS** connecting brands and influencers — campaign composer, real-time review flows, and AI generation orchestration — with **2 brand pilots** launching Q2 2026
- Integrated **Claude, Gemini, and Fal.ai** into async pipelines for virtual try-on, image normalisation, background swap, and UGC content generation
- Built external connector patterns including a Shopify brand-sync integration; deployed on Vercel with a shadcn/ui component system

Stack: Next.js · FastAPI · Supabase · Postgres · Claude · Gemini · Fal.ai · Shopify API

Nike (via Launchpad)

Nov 2021 – Mar 2025 · Remote

Data Scientist — Member Modelling & Marketing Analytics

- Built **LTV models, engagement scoring, and member segmentation** across Nike's **~300M-member** base on **PySpark and Databricks**
- Owned marketing analytics for Nike's owned channels; designed an **Engagement Quality Score** and affinity-overlap metrics adopted by the Member Modelling team
- Frontend development on Launchpad's Shopify Price Optimizer app (Python, Flask, AWS S3/RDS/Lambda/Batch)

Stack: PySpark · Databricks · SQL · Python · Flask · AWS (S3, RDS, Lambda, Batch)

BSc Engineering & Business Studies (2:1)

University of Warwick, UK

2006 – 2009

Research

Medical CV system for fetal-gender masking in ultrasound (YOLOv5 / OpenCV)

arxiv.org/abs/2109.06790

Certifications

Udacity — ML Engineer Nanodegree

deeplearning.ai — TensorFlow

Developer Specialization

deeplearning.ai — Deep Learning

Specialization

Imperial College — Mathematics for

Machine Learning

Languages

English

Native

Spanish

Professional

Fellowship.ai

2024 – 2025 · 2021 · Remote

Launchpad's applied-AI fellowship — returned to mentor and run cohorts after completing the fellowship.

Mentor & Program Lead

2024 – 2025

- Mentored cohorts of fellows through real-world **ML/LLM projects end-to-end** — problem framing, approach and code review, evals, and shipping a working system — translating production experience into hands-on teaching
- Ran the program side: guiding teams, unblocking technical decisions, and setting the bar for what production-ready means

Data Science Fellow

May – Aug 2021

- Built a **medical computer-vision system** for fetal-gender masking in ultrasound imagery using YOLOv5 and OpenCV; published on arXiv: arxiv.org/abs/2109.06790

Earlier — Ondacoustic / BB & RBA Acoustics

2012 – 2021 · UK · NZ · Colombia

Principal acoustic consultant across 300+ projects; founder of Ondacoustic Colombia, manufacturing acoustic panels for AV companies and recording studios. Built Python tooling for acoustic modelling.