

SAHADH FAZAL MOHAMED

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PROFESSIONAL SUMMARY

Software and AI Engineer who ships production systems rather than prototypes. My work is live: an iOS App Store application in daily operational use across 4 restaurant branches, and a RAG-based sales assistant that quotes exact prices to customers without a person in the loop. BSc (Hons) Computer Science graduate (2:1, Nottingham Trent University, 2026), designing systems around failure modes, not just the happy path.

KEY ACHIEVEMENTS

- Shipped an iOS App Store app now central to daily operations across 4 branches; cut render latency by 20%.
- Designed a RAG pipeline with a 2-layer fallback that removed customer-facing errors during API outages.
- Kept a live routing API serving requests through cloud database outages via automated failover.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, SQL, Java

Frameworks and Web: React, React Native, Node.js, Next.js, Flask, HTML, CSS

AI and RAG Engineering: RAG pipeline design, vector databases (Supabase pgvector), embeddings and cosine similarity search, LLM integration (Google Gemini), agentic systems (ReAct), prompt engineering, PyTorch, TensorFlow

Systems and Cloud: Docker, Git, Azure, AWS, PostgreSQL, REST API design, distributed systems and failover patterns

Engineering Fundamentals: Data structures and algorithms, OOP, SOLID, system design, RBAC, Agile/Scrum, software testing (pytest)

PROFESSIONAL EXPERIENCE

Co-Founder and Lead Developer (Self-employed), Artim Labs

Jan 2026 to Present

- Lead engineering for a UK software studio, architecting 6 live production systems for 7 client brands across retail, hospitality, automotive and travel in 7 months.
- Engineered TRUKBK's hallucination-resistant AI sales assistant (Supabase pgvector, Google Gemini), grounding every answer in real product data with a fallback layer that keeps it running through API limits; also built the frontend configurator, cutting page load times by 1.2s.

Software Engineer (Freelance), Arasan Travels

Aug 2025 to Jan 2026

- Built a full-stack booking platform (serverless pnpm monorepo) with a type-safe pipeline and Stripe reconciliation, cutting admin overhead by 15%.

Application Developer and Store Assistant (Contract), PHAT Buns UK

Apr 2024 to Dec 2025

- Built PhatOps, an iOS operations app used daily by 20 staff across 4 branches, through optimised components and tuned real-time subscriptions.

PROJECTS

CycleNest API, Java / JAX-RS / Azure Cosmos DB

Oct 2025

- Designed a bike-sharing routing API with an automated active failover pattern that switches to local in-memory stores when the cloud database times out, then reconciles on recovery.

Car Logo Classifier, Python / TensorFlow / NLTK

Nov 2025

- Built a VGG19 CNN for logo classification alongside a separate first-order logic knowledge base (NLTK ResolutionProver): users teach the system new facts in plain English, and any fact that contradicts existing knowledge is proven false and rejected before it is stored.

Secure HR Portal, Next.js / Supabase / PostgreSQL

Feb to May 2026

- Built a portal tracking right-to-work status, visas and document expiries with role-based access control over sensitive employee records.

EDUCATION

Nottingham Trent University, BSc (Hons) Computer Science

Sep 2023 to Jun 2026

Upper Second-Class Honours (2:1). Relevant modules: AI and Machine Learning, Software Engineering.

CIFA, UK Financial Regulation and Professional Integrity (160 hours)

Jun 2026 to Present

Undertaken to support engineering work in regulated financial environments.

CERTIFICATIONS

IBM Certified iOS and Android Mobile App Developer | Microsoft Applied Skills: Enhance Agents with Autonomous Capabilities | Google AI Certification | Google Machine Learning Crash Course | AWS Cloud Foundations | Data Analysis with Python, freeCodeCamp