

◆ PROFESSIONAL SUMMARY

Full-Stack AI Engineer building production-ready AI products end-to-end. From RAG pipelines, tool-using agents and LLM grounding to scalable Next.js + Cloud Run deployments — I take research to revenue. Approximately 10 years across enterprise (THG, Gifftid), independent contracting and research roles; deployed AI serving 7M+ monthly users. British citizen, working remotely for nearly two years — the last 16 months contracting directly for overseas clients, so no sponsorship or relocation is involved. Available now for remote contract or full-time engagements.

◆ PROFESSIONAL EXPERIENCE

◇ Contract Full-Stack AI Engineer & Data Scientist

Independent Contractor — sole trader (multiple clients) · Remote, overseas clients · **May 2025 — Present**

- ◆ **Gifftid — R3 + R4 SME Intelligence Platform (main client, ongoing):** designed and built the platform that scores UK SMEs on Risk, Readiness and Resilience for lenders and funders. Next.js 16 + TypeScript on Cloud Run over BigQuery; data pipelines on public company filings and financial accounts; evidence-traced scoring signals, with in-house AI systems for narrative signal extraction and comparison reports; public REST API with API keys, Stripe billing, Playwright and Vitest test suites.
- ◆ **Loredana — AI Coaching SaaS:** architected a full-stack Next.js + Firebase platform; built “Sage Journal” with Gemini for sentiment-aware coaching feedback, real-time Recharts dashboards (6-pillar resilience radar, somatic body mapping), and role-based Firestore auth.
- ◆ **Telleosis / MyJamb — EdTech AI Tutor:** engineered a FastAPI backend on Cloud Run with a RAG pipeline over BigQuery Vector Search (cosine distance) to retrieve lesson contexts; designed SQL gamification for leaderboards and randomised exam generation.
- ◆ **Kotchakorn — Language-Learning AI:** interactive Thai-learning app in Python Shiny + BigQuery with Gemini 2.5 Flash streaming proficiency-tuned lessons; automated PDF and flashcard generation.

◇ Lead Data Scientist

Gifftid Ltd. (all-in-one AI platform for SMEs) · London, UK · Remote · **Sep 2024 — May 2025**

- ◆ Architected and shipped the complete GenAI platform — GCP infrastructure, CI/CD for Machine Learning, containerised deployments (Docker / Kubernetes), monitoring, access controls, chatbots, vector databases, and analytics dashboards; ran red-team and model-response evaluation passes on each major LLM feature before it shipped.
- ◆ Partnered with the CEO on strategic AI direction; identified market gaps and shipped SME-focused tooling that positioned Gifftid as a leading AI-driven SME platform.
- ◆ Built in a small core team alongside a former Google Ads engineering lead and an MIT PhD product lead, driving development through close technical debate as an equal contributor.

◇ Data Scientist & Software Engineer

The Hut Group (THG) (global e-commerce, health & beauty) · Manchester, UK · **Oct 2018 — Sep 2024**

- ◆ Built production GPT chatbots grounded to company data with hallucination prevention, moderation guardrails, RAG, and chain-of-thought / tree-of-thought prompting (LangChain, NVIDIA NeMo Guardrails); red-teamed them adversarially and reviewed model responses at scale before release.
- ◆ Shipped multi-modal vision-language outfit recommendation chatbots using InstructBLIP and GPT models on Azure; deployed AI projects serving 7M+ monthly users.
- ◆ Built topic detection and sentiment-analysis pipelines using guided LDA, RoBERTa, BERT and DistilBERT; integrated Machine Learning services into production APIs and backend systems.
- ◆ Featured at THG Ingenuity Future of Commerce 2023 Industry Innovators Conference; trained and project-led other data scientists.

◇ Research Internships & Final-Year Project

University of St Andrews · Trinity College Dublin · Maynooth University · Augary (US) · DFKI (Germany) · **2015 — 2018**

- ◆ Machine Learning on 2,500 Full-HD videos (12-node cluster) for video-encoding optimisation; ROS/TurtleBot 3D room-change detection extending MIT's Kintinuuous SLAM; real-time on-device lane detection (patent-pending, IEEE-published); spatial 5.1 audio research with Google and SFI Ireland.

◆ AGENTIC AI SYSTEMS

Tool-using LLM agents, designed and built solo — source for Frontdesk, Footnote and Groundwork at github.com/IbrarYunus.

- ◆ **Frontdesk** `Python · FastAPI · Claude · SQLite` — customer-support agent that looks up orders, cancels and refunds. Money rules are enforced in tool code, not the prompt; refunds over GBP 100 pause for human approval; evals cover prompt-injection attacks.
- ◆ **Footnote** `Python · FastAPI · Claude · hybrid search` — agentic RAG over a 232-page handbook. The agent plans its own searches, retries when results are thin, and cites the exact source sentence for every claim; retrieval measured on 59 golden questions (MRR 0.61).
- ◆ **Groundwork** `TypeScript · React 19 · Anthropic SDK · Gemini` — browser-only agent that audits a GitHub repository and writes a technical audit plus a CLAUDE.md; one tool schema drives both Claude and Gemini. Live at groundwork-audit.web.app.

◆ TECHNICAL SKILLS

AI / MACHINE LEARNING: LLMs · RAG · Generative AI · Machine Learning · NLP · Computer Vision · Multi-Modal · Fine-tuning · Prompt Engineering · Agentic AI · AI Agents · Agentic RAG · Tool Use · Function Calling · Human-in-the-Loop · Hybrid Search (BM25 + Vector) · Agent Evaluation · LLM Evaluation · Red-Teaming · Model-Response Review · Guardrails · Embeddings · Vector Search · Sentiment Analysis · Topic Modelling · Recommendation Systems · Classical ML · Time-Series Forecasting · MLOps · A/B Testing

MODELS: GPT-4/5 · Claude · Gemini · Llama · BERT · RoBERTa · DistilBERT · BLIP-2 · InstructBLIP · X-CLIP · CLIP

PROGRAMMING LANGUAGES: Python · TypeScript · JavaScript · SQL · Rust · C++ · C · Go · Java · Bash · HTML / CSS

FRAMEWORKS & LIBRARIES: Next.js · React · Node.js · Tailwind CSS · FastAPI · Flask · Tauri · Shiny · LangChain · LangGraph · LlamaIndex · Hugging Face · PyTorch · TensorFlow · Keras · scikit-learn · Transformers · spaCy · NLTK · Gensim · Pandas · NumPy

CLOUD & DEVOPS: GCP (Cloud Run, BigQuery, Vertex AI, Cloud Functions, Pub/Sub, Cloud Storage, IAM) · Firebase · Firestore · Azure · Docker · Kubernetes · CI/CD · GitHub Actions · Linux · Git · REST · gRPC · OpenAPI · Microservices · Serverless

LLM TOOLING: OpenAI · Anthropic Claude · Anthropic SDK · Claude Code · Gemini Function Calling · Google AI · Hugging Face · LangChain · LangGraph · LlamaIndex · NeMo-Guardrails · DialogFlow · BigQuery Vector Search · Pinecone · Chroma · ONNX · Ollama

DATA & ANALYTICS: BigQuery · PostgreSQL · MySQL · ETL · Data Warehousing · Recharts · Plotly · Streamlit

◆ EDUCATION

◆ MSc Dependable Software Systems (DESEM) — Distinction

University of St Andrews (UK) & Maynooth University (Ireland) · Erasmus Mundus Scholarship · **Sep 2016 — Jun 2018**

Thesis: 3D room-change detection on a TurtleBot with an RGBD sensor, extending MIT and Maynooth's Kintinuous visual SLAM — 83% (2D) / 100% (3D) accuracy.

◆ BSc Computer Science

NUST — School of Electrical Engineering & Computer Science (SECS) · Islamabad, Pakistan · **Sep 2012 — Jun 2016**

◆ CERTIFICATIONS

- ◆ Google Cloud Platform Fundamentals: Core Infrastructure (Coursera) — 2021
- ◆ NVIDIA — Fundamentals of Deep Learning for Multi-GPUs — 2021
- ◆ Advanced SQL for Data Scientists, and Time Series (LinkedIn Learning) — 2021

◆ AWARDS & RECOGNITION

- ◆ Erasmus Mundus Joint Masters Scholarship — €49,000 (European Union)
- ◆ Gold Medal — Best Adjudged Industry Project (Undergraduate)

◆ PATENTS & PUBLICATIONS

◆ Real-Time Lane Departure Warning System on a Lower-Resource Platform

US Patent Pending · IEEE Publication

◆ AI PRODUCTS & CLIENT BUILDS

- ◆ **Glass Invoice** `Next.js 16 · React 19 · Firebase · Gemini` — AI invoicing platform for UK sole traders and limited companies: instant PDF invoices, revenue and client analytics, AI tax guidance, and a conversational agent grounded in the user's own financial data.
- ◆ **Nijikai** `Tauri 2 · Rust · headless Claude · agentic` — agentic Tokyo settai planner. Rust supervises cancellable headless-Claude process groups, streaming structured venue extraction under hard constraints; runsheets carry seating, settlement and last trains.
- ◆ **Euro-Japan Compass** `Next.js 16 · TypeScript · Tailwind v4 · Firebase` — client site for a European market-support consultancy serving Japanese firms; English and Japanese as two separately prerendered sites, statically exported. Live at euro-japan-compass.web.app.
- ◆ Also shipped: LINA (AI Mandarin learning studio), GoChurch, Hayaat (E2E-encrypted AI journal), Kura (macOS Finder replacement), Sakurako, NotAlone, LinkVibe, Underscore, Vibelink, For Social Life — more at libraryunus.com/ai-engineer.

◆ PUBLISHED NATIVE APPS — RUST + TAURI

Signed, notarised desktop software, built and shipped solo — downloads and write-ups at libraryunus.com/ai-engineer. Also published: Saya (privacy browser), Mist (native IDE), Aks (GPU photo editor), Andhera (video player), Naqsh (terminal emulator), Rait (timezone calendar).

◆ LANGUAGES

English — Native · Japanese — Beginner (studying) · Urdu — Professional · Thai — Limited · Chinese — Elementary

◆ AVAILABILITY

TARGET ROLES: AI Engineer · Machine Learning Engineer · MLOps Engineer · Data Engineer · Data Scientist · Backend Engineer · Full-Stack Engineer · LLM Evaluation and Red-Teaming · Model-Response Review · Prompt and RAG Engineering · GenAI Consulting

ENGAGEMENT: Fully remote, async-first · Contract, part-time or full-time · British citizen — no sponsorship required; contracts and invoices directly as a sole trader · Available across all client time zones.