

# ORUME DOMINIC URIRIE

AI ENGINEER · LLM, RAG & Agentic Systems · Python, FastAPI & Cloud Deployment

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## PROFILE

Applied AI Engineer with a demonstrated history of moving AI prototypes into reliable, cloud-hosted services across financial-document automation, paid-subscriber analytics, and housing-operations SaaS.

Expertise in designing, building, and deploying LLM, RAG, and agentic systems that automate document-heavy workflows, accelerate operational decision-making, and convert business requirements into measurable value.

**Specialties:** LLM & Agentic Systems, RAG & OCR Pipelines, Machine Learning, LLM Evaluation & Monitoring, FastAPI Services, Azure & Google Cloud Deployment, MLOps, Verifiable AI Accountability, Threat Modelling, and Delivery Governance.

## TECHNICAL SKILLS

- **LLM & Agentic Systems (production):** agents with tool use, planning and memory; multi-step orchestration; human-in-the-loop control; RAG design and deployment; LangChain, LangGraph, CrewAI, AutoGen; MCP-style structured context; hallucination / latency / cost trade-off design; LLM evaluation and monitoring.
- **Machine Learning:** classification, regression, forecasting, anomaly detection on real-world datasets; model evaluation and benchmarking; PyTorch, TensorFlow, Keras; MLOps / AIOps concepts.
- **Programming & Frameworks:** Python (production-grade), TypeScript / JavaScript, SQL; FastAPI, Next.js, Flask; Git, GitHub, CI/CD, Docker, automated testing, PyPI packaging.
- **Cloud & Data:** Google Cloud Run, Azure, Vercel, Fly.io, AWS; Snowflake, Supabase; OCR pipelines; API and payment integration (Paystack, QuickBooks); Telegram / WhatsApp delivery channels.
- **Verification & Blockchain:** cryptographic verification, SHA-256 audit chains, on-chain anchoring (Polygon), tamper-evident records, provenance and auditability for AI accountability.
- **Delivery & Governance:** requirements gathering, stakeholder workshops, technical training, STRIDE threat modelling, FAIR risk scoring.

## SELECTED APPLIED AI SYSTEMS:

**AI Code Quality Auditor**, MSc Research Instrument, Aston University · Feb 2026 – Present

- Built a Python evaluation instrument measuring where AI coding agents fail across hallucination, code complexity, duplication, and security-density indicators, with 600 controlled measurements, repeatable runs, SonarCloud findings, and dashboard-ready output.

- Designed as reusable, reproducible research infrastructure, published on PyPI, extending beyond a one-off dissertation experiment.

**Eagles Den**, Paid-Subscriber Analytics Platform, Vorem · Google Cloud Run · 2025 – Present

- Built a five-model LLM analytics workflow for subscriber decision-making, including market-signal generation, Paystack billing, Telegram / WhatsApp delivery, and Cloud Run deployment, with ongoing ownership of uptime, latency, cost, and paid-user reliability.

**Tax & Statement Analyser**, RAG + OCR Document Automation · Google Cloud Run · public repo

- Developed a RAG and OCR workflow that extracts transactions, classifies tax categories, flags anomalies, and grounds retrieval against regulatory documents, supporting faster, more consistent compliance review for emerging businesses.

**VeritaPort**, Layer-3 Document Verification for AgenticOS · Client engagement · FastAPI, Next.js, Docker

- Designed and delivered a cryptographic verification layer for tamper-evident document integrity, combining SHA-256 hash-chain verification, product-level tamper detection, branch-based delivery, tamper-testing demonstrations, and production merge readiness for AgenticOS.

**AI Job Search Agent**, Human-Approved Automation · Claude API, Playwright, Flask · public repo

- Built an agentic workflow that finds roles, compares CV fit, drafts tailored applications, and routes every output through a human-approval dashboard before submission, combining browser automation, tool use, controlled autonomy, and human-in-the-loop governance.

**Tenant Hub**, B2B Housing-Operations SaaS · MCKI Solutions · Live Apr 2026

- Delivered a housing-management SaaS for 100+ tenants across housing brands: role-based access control, tenant and brand-level Supabase workflows, SHA-256 audit-chain records, CI-enforced deployment controls, live Vercel deployment.

## PROFESSIONAL EXPERIENCE

**AI Engineer, Enterprise Applications, MCKI Solutions, Birmingham, UK** · Nov 2025 – Present

- Delivers enterprise AI applications end to end, including requirements gathering, build, testing, deployment, documentation, and user training, moving selected LLM prototypes into client-facing, cloud-hosted tools across student-routing, document-processing, content-automation, and housing-operations workflows.
- Reduced manual support queries by 40% by building a custom AI Student Gateway mapping student preferences to relevant universities and visa pathways.
- Built and deployed a web application achieving a consistent 90+ Lighthouse score and a 25% increase in user stay-time by streamlining cloud deployment on Google Cloud Run.
- Reduced content-production time by 70% through a governed AI publishing engine syncing WordPress blogs with LinkedIn and Facebook under controlled publishing workflows.
- Built a high-accuracy OCR system (98% precision) automating tax calculations and accelerating compliance review for emerging businesses.

**AI Liaison & Advisor (Advisory): Simera Global / YTube Booster Pro, London, UK** Feb 2026 – Present

- Advises on AI workflow design for regional business pipelines, covering CrewAI / LangGraph orchestration, KYA verification layers, and secure cross-border data handling for autonomous-agent use cases, supporting product strategy that contributed to the africa continent active user base, partnerships and signups.

**AI /ML Engineer: Vorem**

Sept 2017 –

Oct 2025.

- Progressed with the field across two eras: classical ML pipelines and predictive modelling (2017–2020 — scikit-learn, pandas, EDA in Jupyter/Colab) and LLM / agentic systems (2023–present).
- Created, deployed, and maintained AI products across education, analytics, and workflow automation, including a supervised-autonomy quantitative FX / crypto signal system with a nine-module architecture, governance kill-switch, API integrations, and production monitoring.
- Served as technical project supervisor, providing leadership in developing and testing AI tools with prompt engineering and generative AI.
- Monitored AI solutions in production, optimising through automated workflows; reviewed IT security processes using AI for anomaly detection.
- Collaborated with engineers, data scientists, and consultants on client projects, integrating APIs and agentic AI; identified process shortcomings and delivered improvements, including AI-driven governance and compliance.
- Delivered technical training to 12,000+ learners via Vorem institute of technology; supervised technical project work spanning development, testing, prompt engineering, and API integration across AI-enabled client projects.

**Business Development Manager, Okedom Global Services Ltd ·**

Aug 2015 – Aug 2017

- Led business development, sales operations, and technical support in consumer technology; exceeded annual sales targets by 25%, secured five major client contracts, and maintained 95% customer satisfaction.

**EDUCATION**

- **MSc Artificial Intelligence & Business Strategy** , Aston University, UK · 2026. Dissertation on AI coding-agent quality measurement; ML coursework using UK road-accident data for classification and predictive modelling.
- **BEng Electrical & Electronics Engineering** , Covenant University · 2014. Final project: 5kVA AI-based changeover inverter; industrial internship at a 1,020 MW thermal power plant.

**CERTIFICATIONS, IP & RECOGNITION**

- Microsoft Azure AI Apps & Agents Developer)
- AI Governance & Responsible AI
- Python (University of Michigan).
- Cisco CCNA & CCNP.
- Leveraging AI for Governance , regulation and compliance.
- Certified Blockchain Architect (Blockchain Council).
- Certified Metaverse Expert (Blockchain Council).
- **UK Patent Application GB2611754.9** (filed 2026, pending), the KYA Framework for verifiable AI accountability and provenance.
- Author of five books ( published on Amazon , Waterstones uk and Ebay)
- 39+ public speaking engagements as evidence of communication and knowledge-sharing.