

# Kolawole Marvellous Olaoluwa

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## Professional Profile

High-impact AI Engineer and Full-Stack Developer with over 6 years of autonomous freelance experience. Founder of TheHackitect Solutions Limited, with a proven history of architecting complex, AI-driven systems that solve critical business and legal challenges. Expert in building autonomous CRM agents, high-stakes RAG systems for legal analytics, and scalable automation tools. Passionate about empowering the next generation of developers through rigorous technical training.

## Professional Experience

- Jan 2017 – Present
- Lead AI Engineer & Solutions Architect, Freelance / Self-Employed, Remote**
- **Autonomous AI-Powered CRM Ecosystem:**
    - Architected a fully autonomous Customer Relationship Management platform that enables businesses to deploy custom-trained AI agents on proprietary company data.
    - Engineered a proprietary "Human-in-the-Loop" protocol that intelligently detects sentiment escalation and seamlessly hands off complex queries to human support without context loss, increasing customer satisfaction scores by over 40%.
    - Designed the core NLP pipeline using fine-tuned transformer models to handle multi-turn conversations and autonomous booking/scheduling tasks.
  - **High-Stakes Legal RAG System (US Client - 2024):**
    - Developed a mission-critical Retrieval-Augmented Generation (RAG) system for a high-profile US custody battle, capable of ingesting and cross-referencing terabytes of unstructured data (chat logs, PDF court files, images, emails).
    - *Impact Victory:* The system's ability to uncover hidden patterns and generate citation-backed legal reports was directly credited with securing a flawless court victory for the client.
    - Built a secure, privacy-compliant knowledge base architecture that transforms raw file uploads into deep, searchable study materials and interactive legal summaries.
  - **Telegram Automation & Bot Ecosystem:**
    - Conceptualized and deployed a suite of robust Telegram bots integrated with external APIs (payment gateways, crypto wallets, CRM tools) to automate complex user workflows.
    - Implemented serverless architecture (AWS Lambda) to handle high-concurrency spikes during bot launches, ensuring 99.9% uptime.
  - **Technical Training & Capacity Building:**
    - Designed and delivered intensive bootcamps on Python Programming, Web Development, and AI integration.
    - Mentored diverse cohorts of students, guiding them from "Hello World" to deploying production-ready applications, with several graduates securing employment in the tech sector.
- Jan 2026 – Present
- Founder & Director, TheHackitect Solutions Limited, Akure, Nigeria**
- Officially incorporated a private limited company (RC 9241584) to formalize freelance operations and scale enterprise AI solutions.
  - Leading strategy for deploying bespoke AI software to local and international SMEs.

- Sep 2024 – Present    **Data-Driven Design Consultant, UrbanData Pros, Remote**
- Analyzing complex building management datasets to optimize energy efficiency, reducing operational costs for clients.
  - developing custom Python scripts to automate routine architectural design tasks, effectively bridging the gap between AEC workflows and modern software engineering.

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## Technical Expertise

<b>AI &amp; ML Core</b>	TensorFlow, PyTorch, Scikit-learn, Keras, Large Language Models (LLMs), RAG Architectures
<b>Backend &amp; Web</b>	FastAPI, Flask, Django, RESTful APIs, WebSockets, Secure Authentication
<b>Data Science</b>	Python (Pandas, NumPy), Matplotlib, Seaborn, Advanced Statistical Analysis
<b>Cloud &amp; DevOps</b>	AWS (EC2, Lambda, S3), Docker, CI/CD Pipelines (GitHub Actions), Nginx
<b>Databases</b>	PostgreSQL, MongoDB, SQL, Vector Databases (for RAG)

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## Education

- 2019 – 2025    **Bachelor of Technology (B.Tech), Architecture, Federal University of Technology Akure (FUTA)**
- Class of Degree:** Second Class Upper Division (Honours)  
*Successfully combined rigorous architectural training with advanced software engineering, applying computational logic to design problems.*

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## Certifications & Professional Training

- Issued 2026    **Certificate of Incorporation (RC 9241584), Corporate Affairs Commission (CAC), Federal Republic of Nigeria**  
Legal validation of TheHackitect Solutions Limited as a registered private entity.
- Issued 2018    **Professional Certification in ICT, Classic System Info Tech**  
Rigorous training covering Hardware Maintenance, Advanced Software Engineering principles, and Network Administration.
- Issued 2017    **National Industrial Skills Development Programme (NISDP), Industrial Training Fund (ITF)**  
Federal certification of competence in ICT and Digital Literacy, marking the foundation of my professional tech career.