

Olorundare Micheal Babawale

Full-Stack & AI Systems Architect

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Professional Profile

Full-Stack and AI Systems Architect focused on designing practical, production-ready software across web, mobile, desktop, and distributed environments. Strong in FastAPI backend engineering, modular system design, data modelling, and AI integration, with hands-on experience building multi-agent automation, offline-first accessibility tools, biometric platforms, and operational data systems. Known for translating complex product ideas into reliable technical architecture with a clear focus on usability, maintainability, and real-world deployment.

Core Skills

- AI integration and LLM-powered product workflows
- Prompt engineering and model adaptation
- Full-stack product development across web, mobile, and desktop
- Software architecture and modular system design
- REST API engineering with FastAPI
- Offline-first and distributed application design
- Database modelling and query optimisation
- Authentication, RBAC, and secure backend design
- Multi-agent orchestration and automation systems
- Biometric, device, and embedded-system integration
- Analytical Problem-Solving
- Scalable Software Planning
- Ethical AI Design
- Technical Communication
- Team Collaboration & Mentorship
- Continuous Learning

Career Summary

2023 - Present

**Independent / Freelance
Full-Stack & AI Systems Architect**

Ilorin, Nigeria (Remote)

- Designed and delivered 10+ production systems spanning web, mobile, desktop, and embedded environments.
- Built BackendForge, a multi-agent AI orchestration system where 18 specialised agents collaboratively scaffold FastAPI backends from natural-language specifications.
- Developed the Voice-First Learning Assistant, a four-part accessibility platform with hybrid offline speech recognition for low-connectivity classroom use.
- Architected biometric access control for UNILORIN CBT centres, helping reduce impersonation risk and streamline candidate verification.
- Delivered QRive, a FastAPI + Reflex SaaS platform for AI-assisted business identity verification through secure QR workflows.
- Built the TrueTag authentication backend with blockchain token minting and geolocation-aware fraud detection for product verification.

2025

**University of Ilorin
Backend Lead - Clinic Management System**

Ilorin, Nigeria

- Led backend delivery for a secure digital clinic platform that replaced paper-based medical records with a FastAPI + PostgreSQL workflow.
- Implemented QR-card access and role-based dashboards for students, doctors, pharmacists, and administrators.
- Supported a production deployment used by the university clinic to improve record access and operational visibility.

2024 - Present

**Deeper Christian Life Ministry, Kwara State
Platform Architect - Church Data Infrastructure**

Ilorin, Nigeria

- Designed and maintain a scalable data platform powering two mobile applications and a shared REST API across state branches.
- Implemented custom RBAC with state, zone, and branch-level permission scopes to support distributed governance safely.
- Built attendance analytics, newcomer registration flows, and real-time reporting dashboards for operational oversight.

2023 - Present

**SuperProf & Certmart
Python & Software Development Tutor**

Remote

- Teach Python, FastAPI, software architecture, and AI literacy to learners across beginner to intermediate levels.
- Design tailored learning plans that emphasise practical coding, system design, and real-world deployment habits.
- Mentor students as they move from first principles into building complete, production-oriented applications.

Education

BSc. Statistics

University of Ilorin | 2015 - 2019

Built a strong foundation in quantitative analysis, probability, and data modelling that now informs systems thinking, AI evaluation, and backend architecture decisions.

Certifications

Prompt Engineering for Developers

DeepLearning.AI | 2024

AI for Everyone

Coursera / DeepLearning.AI | 2023

FastAPI - Full Course for Beginners

freeCodeCamp | 2022

Python for Everybody Specialisation

Coursera / University of Michigan | 2021

Tools & Technologies

Languages: Python, SQL, JavaScript, Bash, Solidity

Frameworks: FastAPI, FastHTML, Faststrap, Reflex, KivyMD

Desktop / GUI: PySide6, PyQt6, KivyMD, Tkinter

AI / ML: OpenAI API, Faster-Whisper, Piper-TTS, LangChain, RAG

Data / Infra: PostgreSQL, SQLite, Redis, Docker, systemd

Other: HTMX, Paystack, Blockchain / Web3, Git / GitHub, Linux

Languages

English - Fluent

Yoruba - Native

Portfolio: olorundaremicheal.vercel.app