OLAIDE GABRIEL OLATOYE

Full Stack & Platform Engineer

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Live systems: knowtheblocks.org | cns.com.ng | aflon.edu.ng

PROFESSIONAL SUMMARY

Full Stack and Platform Engineer building and shipping production web applications since 2019, across React, Next.js, Node.js, PHP, and Python. Delivers complete systems end-to-end: database architecture, backend APIs, frontend UI, cloud infrastructure, and CI/CD. In 2026, delivered 8 live platforms for an EdTech programme now serving 200+ active learners, part of a wider community that has trained 15,000+ students across 8+ partner schools. First Class Honours in Computer Science, with 5 published research papers in machine learning and blockchain.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, PHP, Solidity, Kotlin, SQL

Frontend: React.js, Next.js, TypeScript, TailwindCSS, Redux Toolkit, Vite, SCSS

Backend: Node.js, Express.js, Django, Flask, PHP/Laravel, REST API design

Databases: PostgreSQL, MySQL, MongoDB, Redis

Cloud & Infrastructure: Docker, CI/CD (GitHub Actions, custom Bash pipelines), Nginx, Linux server administration, DigitalOcean, Google Cloud, Cloudflare, Bunny.net CDN

System Design: Multi-tenant architecture, caching and CDN strategy, SSL and security hardening, automated backup and disaster recovery, horizontal performance tuning

AI & Machine Learning: TensorFlow, PyTorch, Keras, Scikit-learn, LangChain, RAG pipelines, VectorDB, embeddings (Ollama), OpenAI and Azure AI, Hugging Face

LMS & Platforms: Moodle 4.5 (plugin and theme development, APIs, architecture), Sakai LMS (Java, Maven, Tomcat), H5P, SCORM, BigBlueButton

Practices: CI/CD automation, code review, Git workflows, technical mentoring, NDPA data-protection compliance

PROFESSIONAL EXPERIENCE

Platform Lead & Full Stack Developer | Know the Blocks Maven (KBM)

Remote | 2026 - Present

Professional training organisation delivering AI, Blockchain, and Web3 programmes across Nigeria.

- Delivered 8 production web properties end-to-end against a signed product requirements document, reaching 80 to 85% programme completion: two Moodle learning platforms, two corporate websites, a partner site, a founder portfolio, and two enrolment funnels.
- Built the KBM LMS on Moodle 4.5.10+, now serving 200+ active learners, with 14 custom-engineered plugins, including an AI course assistant, auto-generated branded certificates, Open Badges, gamification tiers, cohort and sprint management, document-to-course conversion, and a custom SEO toolkit.
- Architected a fully isolated multi-tenant deployment: ran a second brand (Wamido) on the same VPS with separate databases, file stores, domains, and admin panels, achieving zero data bleed between tenants.
- Integrated Paystack self-service checkout with deposit and instalment options, a transaction store, and automated confirmation emails, removing manual enrolment handling.
- Engineered the performance and reliability stack: Redis caching, Bunny.net CDN video streaming, SSL enforcement, and daily backups with 30-day retention, optimised for low-bandwidth Nigerian mobile networks.
- Built the KBM marketing site on Next.js 15 and a Sanity headless CMS with a visual page-builder (30+ section types across 14 pages) and full structured-data SEO; the live site supports a community of 500+ members and 15,000+ students trained across 8+ partner schools.
- Integrated a custom AI course assistant (OpenAI and Azure), H5P and SCORM content, and BigBlueButton live classes; implemented NDPA (Nigeria Data Protection Act) consent compliance.
- Mentored junior developers and established code review, CI/CD, and engineering standards for the team.

Lead Software Engineer | ACAIR (Aflon Centre for AI & Robotics)

Abuja | 2025 - Present

EdTech and AI research organisation building digital learning and smart-campus platforms.

- Architected and lead-developed cns.com.ng, an AI-augmented LMS for Nigerian university students on a fully customised Moodle 4.5 stack, now drawing 500+ active users.
- Built a custom Moodle theme plugin from scratch (SCSS, Mustache templates, layout overrides), replacing the default theme to match ACAIR branding and UX requirements.

- Designed and built a CI/CD pipeline from scratch using Bash and npm scripts, covering environment setup, database sync, file sync, deploy, and upgrade-note generation.
- Delivered 4 additional platforms end-to-end: acair.edu.ng, aflon.edu.ng (Next.js smart-campus platform, 415 students enrolled with 69 active users), oduduwa.org.ng, and a React Native school-management mobile app.

Backend Engineer | Tayari.Live

Remote, Kenya | 2024 - 2025

EdTech platform connecting learners with tutors across East Africa.

- Developed backend APIs with Node.js and TypeScript, integrating AI-powered course-content generation and tutor recommendation services into the platform frontend.
- Built a RAG-based tutor recommendation system using VectorDB, embeddings (Ollama), and LangChain orchestration.

Full Stack Engineer | TeraAI

Remote | 2024 - 2025

AI-powered fintech startup building automated trading infrastructure.

- Designed and implemented full-stack architecture (React, Next.js, Node.js, Express, MongoDB) for an AI-powered trading platform with real-time market data pipelines.
- Built scalable backend APIs for real-time market predictions, wallet-to-wallet transactions, and automated trade execution.

Web Development Instructor | Global Tech Computer Institute

Lagos | 2019 - 2020

- Taught HTML, CSS, JavaScript, and PHP to 100+ students through a project-based curriculum, mentoring learners from beginner to advanced.

SELECTED PROJECTS

- **CloudColab** - Full-stack SaaS platform for real-time collaboration, task management, and video/audio communication. React, Node.js, Socket.io, MongoDB.
- **MLGuard** - Network intrusion detection system classifying malicious packets in real time using Random Forest and XGBoost. Python (Flask), Scikit-learn.
- **BrainWave** - AI-assisted learning platform that adapts curriculum based on learner performance. React (Vite), Node.js, LangChain, Gemini APIs, VectorDB.
- **Sakai on Ubuntu** - Open-source tooling that simplifies Sakai LMS installation on Ubuntu, addressing gaps in the official setup documentation. Shell, Java, Maven, Tomcat.
- Maintains 88 public repositories on GitHub (github.com/codewithgabriel) spanning full-stack web, machine learning, blockchain, and developer tooling.

EDUCATION

B.Sc. Computer Science, Ladoke Akintola University of Technology (LAUTECH) 2020 - 2025

- First Class Honours. Coursework and research spanning software engineering, algorithms, and machine learning.

CERTIFICATIONS

- **Linux Essentials** - Cisco Networking Academy. Issued October 2020. Credential ID f7e700cc-153d-4007-8868-1e7e3d7676e1.

RESEARCH & PUBLICATIONS

5 peer-reviewed publications in machine learning and blockchain (co-authored with academic supervision at LAUTECH):

- **Real-Time Intrusion Detection System Using PCA and Ensemble Machine Learning** - Advance Journal of Science, Engineering and Technology, 11(4), 2026. doi.org/10.5281/zenodo.19609503
- **Android Privacy Enhanced Document Sharing System using Blockchain and IPFS Technology** - IJIRCCE, 10(8), August 2022 (Impact Factor 8.165). doi.org/10.15680/IJIRCCE.2022.1008039
- **Deep Learning Applications and Challenges in Big Data Analytics: A Survey** - IJIRSET, 11(1), January 2022 (Impact Factor 7.569). doi.org/10.15680/IJIRSET.2022.1101126
- **State of Art in Message Delivery System using Blockchain Technology** - IJIRCCE, 9(8), August 2021 (Impact Factor 7.542). doi.org/10.15680/IJIRCCE.2021.0908049
- **Blockchain Based Document Management Systems in Information Security Age: Appraisal, Applications and Challenges** - IJIRSET, 10(7), July 2021 (first author, Impact Factor 7.569). doi.org/10.15680/IJIRSET.2021.100333