GOODNESS OLUWAPELUMI ONI

Founder and CEO, OGverse Innovations | AI/ML Engineer | Systems Engineering Student

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PROFILE

Founder and CEO of OGverse Innovations, a CAC-registered Nigerian startup building AI products for students, including PathSync, winner of the MSSN Unboxed 2026 Innovation Pitch, and GraphSense, 1st place in a MathWorks MATLAB competition. Systems Engineering undergraduate at the University of Lagos (CGPA 4.67/5.00) and AI/ML engineer who builds backend APIs, payment flows, LLM integrations and trained machine-learning models, and leads the technical and partnership side of student teams.

EDUCATION

Bachelor's Degree, Systems Engineering
University of Lagos | 2024-2029 expected | 300 Level | CGPA 4.67/5.00

- Current coursework includes engineering statistics and data analytics, introduction to AI, machine learning and convergent technologies, algorithms and data structures, robotic systems, operations research and engineering economics.

Artificial Intelligence and Machine Learning Training
Digital SkillUp Africa, The Incubator Hub | Certificate of Completion, November 2025

- Covered Python, feature engineering and scaling, and end-to-end model training; capstone was the Health Risk Predictor (see Projects).

Website Development Track, AI Summer Camp 2022
Data Scientists Network (DSN) | 15-26 August 2022 | Certificate of Completion

- Rated "Outstanding performance" with full marks across creativity, responsiveness, attentiveness, communication and class activity.

EXPERIENCE

LEADERSHIP

Founder and CEO | OGverse Innovations
Lagos | Registered with the Corporate Affairs Commission (CAC) as a business name, BN 9710703, July 2026 | Verified by SMEDAN, October 2026

- Leads product and engineering for an education-focused startup building PathSync, GraphSense, NaijaOpportunities and Lectio.

AI/ML Lead (Technical Lead) | Techstars UNILAG
April 2025-present | Previously AI/ML Co-Lead

- Leads the AI squad's technical sessions and workshops, mentors students through model building, deployment and ML ethics, and oversees collaborative projects.

AI/ML Track Lead and Deputy Sponsorship Lead | Association of Systems Engineering Students (ASES), UNILAG
January 2026-present

- Organises AI/ML workshops and learning sessions, leads student ML projects and supports the ASES Skills Lab and secondary-school outreach.
- Writes and sends sponsorship proposals to corporate partners for ASES events, including Systems Engineering Week and the H.O.D Games, and led the department's industrial-visit request to Interswitch.

Operations Lead 2 | Quality Education For All Initiative (QEFAI)
September 2026-present

Head of Finance | FAMGO Enterprises

Head of Finance, Operations and Technical | Radiant Church

INTERNSHIPS

AI/Machine Learning Intern | Teazy Tech, via the UNILAG Tech Skills Marketplace (AFRETEC)
October 2026-present | AI UniPod hub, University of Lagos

- Selected and matched to the startup through the 2026 UNILAG Tech Skills Marketplace Internship on the AI/ML track.

SIWES Trainee | Herzer Solar Energy
Three-month placement | Under Dr Gbeniyi

- Works on solar-powered devices with the Herzer Solar Energy team.

VOLUNTEERING

Sponsorship and Partnership Team Member | ULES, SPE UNILAG and ECX UNILAG
2026-present | Selected for ULES after interview (October 2026); joined SPE UNILAG in September 2026

Media and Content Team; Logistics and Planning Team | SPE UNILAG
September 2026-present

- Edited event video content and helped plan the SPE movie night.

SOFTWARE AND MACHINE LEARNING PROJECTS

PathSync AI | Founder and Lead Engineer
Winner, MSSN Unboxed 2026 Innovation Pitch | Live site | Repository

- Built an AI scholarship discovery, matching and application system for Nigerian undergraduates; a guided discovery interview turns everyday experience into the language scholarship panels look for.
- Built with FastAPI, React, Supabase with pgvector for matching, and Claude for the interview; added an application-readiness essay checker. Integration with NaijaOpportunities is planned.

PayPal Hub | Backend and AI Engineer (with David Gilbert, frontend)
PayPal AI Hackathon 2026 | Live site | Repository

- Built the entire Express backend: Firebase and Google sign-in with 24-hour API tokens, per-user Firestore records, and PayPal Sandbox one-time payments and subscriptions.
- Built the AI features: a Groq-powered Guardian review that recommends keeping, cancelling or reviewing each subscription against a budget with live currency conversion, and a Discover search combining Groq with Channel3 product results.
- Wrote the API contract the frontend was built against and deployed the API on Render.

Vouch | Project Lead and Model Developer
Squad Hackathon 3.0 | 63rd of 1,600 entries | Team project with David Gilbert

- Led the team building a portable business trust-profile product for traders, and built the scoring and fraud-detection model logic behind each trust score.

Resonance | Project Lead
DSN x BCT LLM Agent Challenge | Four-person team | Live site | Repository

- Led a two-agent system for Nigerian developers: one agent predicts how a target user would rate and review a project in that user's voice, the other profiles the likely audience for the product.

Hackathon Repo Doctor | Developer
IBM Bob 2.0 Hackathon, lablab.ai | September 2026 | $100 participation award | Repository

- Built an IBM Bob workflow that diagnoses a messy hackathon repository, writes a Jest and Supertest suite (10/10 passing), then fixes the top-ranked issues and proves them with an added test (11/11).

NaijaOpportunities | Founder and Developer
Live site | Repository

- Built a jobs and scholarships platform for Nigerians with Next.js 15, TypeScript, Tailwind and Supabase, fed by a Python scraper that GitHub Actions runs every six hours; every listing has its own shareable page.

Lectio | Backend Lead (with David Gilbert)
Class study workspace | Repository

- Built a FastAPI backend that groups classmates' recordings of one lecture, ranks them, transcribes the best one once, and generates shared notes and practice questions that cite transcript moments, with offline study packs.

CrxRay | Product Manager (with David Gilbert)
Tech Literacy Network (TLN) Cybersecurity Challenge 2026

- Managed the product for a React browser-extension risk scanner that grades permission and privacy signals from A to F with plain-language explanations, and delivered the demo, pitch and presentation.

Health Risk Predictor (OGAI) | Solo Developer
Capstone project, Digital SkillUp Africa AI/ML training (The Incubator Hub) | Live site | Repository

- Trained Random Forest and Decision Tree models to predict heart-disease and muscle-weakness risk, and deployed them in a Flask app with prediction history by category on Render.

Scholary | Developer
OnchainED 1.0 Hackathon | Live site | Repository

- Built a Solana scholarship escrow in which sponsors lock funds in a program vault that releases them only when a registrar oracle verifies the student's academic milestone; Rust and Anchor with a React and TypeScript frontend.

ENGINEERING PROJECTS

GraphSense Accessible Chart-to-Audio Prototype | Product and Presentation Lead
AFRETEC-UNILAG Inclusive Education Challenge 3.0, MathWorks MATLAB category | Team Sync | 1st place

- Shaped the product and delivered the winning presentation for a four-person team; the tool maps chart data to changing audio pitch so visually impaired students can read graphs. Concept by Mumeen; MATLAB build by David Gilbert.

Cement Mill Analysis | Product Manager
Dangote Cement Plc University Engineering Challenge 2026 | Team Kilvora | Top 20 of 300+ submissions

- Two-person team with David Gilbert analysing a cement mill shell and liner; David led the ANSYS structural and thermal analysis.
- Managed the product, built the MATLAB modelling, delivered the pitch and ran the demo. The team estimated a 27.6% conversion gap and modelled a pathway to 85.0% conversion; these are model estimates, not plant results.

Starbie | Hardware Designer
Personal hardware project | Repository

- Designed a motion-controlled digital pet PCB around an ESP32-C3 with an OLED display, MPU6050 motion sensor and DHT11 temperature and humidity sensor, programmed in C++.

COMPETITIONS AND HACKATHONS

- **Winner**, MSSN Unboxed 2026 Innovation Pitch | PathSync AI
- **1st place**, AFRETEC-UNILAG Inclusive Education Challenge 3.0, MathWorks MATLAB category | GraphSense, Team Sync
- **1st place**, Wekoya x ULES Smart Study Competition 2026
- **Top 20 of 300+**, Dangote Cement Plc University Engineering Challenge 2026 | Team Kilvora
- **$100 participation award**, IBM Bob 2.0 Hackathon, lablab.ai (September 2026) | Hackathon Repo Doctor
- **63rd of 1,600 entries**, Squad Hackathon 3.0 | Vouch
- **Certificate of Achievement**, Round 2, 2026 Switch Global Competition (Switch Energy Alliance) | Team Phos, national ten-year energy plan
- PayPal AI Hackathon 2026 | PayPal Hub
- DSN x BCT LLM Agent Challenge | Resonance
- Tech Literacy Network (TLN) Cybersecurity Challenge 2026 | CrxRay
- OnchainED 1.0 Hackathon | Scholary
- SEES Hackathon 2026 (July 2026)

TECHNICAL SKILLS

Backend and web: Python, JavaScript, TypeScript, Node.js, Express, FastAPI, Flask, REST APIs, JWT auth, React, Next.js, Vite, Tailwind CSS, Firebase, Firestore, Supabase, PostgreSQL, pgvector, SQLite, Jest, Supertest, Git, GitHub Actions, Vercel, Render.

AI and machine learning: scikit-learn, Random Forest, Decision Trees, pandas, NumPy, classification and predictive modelling, LLM integration (Groq, Claude), multi-agent systems, vector search, speech transcription pipelines.

Payments and Web3: PayPal REST APIs (orders and subscriptions), Solana, Rust, Anchor.

Engineering: MATLAB, ESP32 and embedded C++, PCB design, sensors, solar-powered systems.

Product and leadership: product management, pitching, sponsorship and partnership outreach, workshop facilitation, video editing.

CERTIFICATIONS, MEMBERSHIPS AND RECOGNITION

Certificates: Artificial Intelligence and Machine Learning, Digital SkillUp Africa / The Incubator Hub (November 2025); Website Development Track, DSN AI Summer Camp (August 2022); participation certificates from the IBM Bob 2.0 Hackathon (lablab.ai, September 2026), TLN Cybersecurity Challenge 2026 (September 2026) and SEES Hackathon 2026 (July 2026).

Recognition: Selected for Cohort 2 of the METI UniPods AI Innovation Programme (UNDP, November 2026).

Memberships: SPE UNILAG, University of Lagos Engineering Society (ULES), ASES UNILAG, QEFAI.