

SOBOWALE, Oluwagbaogo Emmanuel

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EDUCATION

University of Lagos — *Lagos State, Nigeria*

Oct 2019 – Aug 2026 (Expected)

B.Sc. Electrical Electronics Engineering

ALX Software Engineering Programme — *Backend Specialisation*

Jan 2023 – Jun 2024

TECHNICAL SKILLS

Languages: Python, C, C++, Bash, SQL

Backend & Frameworks: Django, Flask, FastAPI, Django REST Framework, Django Channels, Odoo (ERP)

Databases & Search: PostgreSQL, MySQL, MongoDB, Redis, Qdrant (vector search)

DevOps & Tools: Git, Linux/WSL, Docker, Nginx, Puppet, CI/CD, Unittest, MQTT/HTTP

Concepts: REST API design, caching, WebSockets, microservice architecture, ORM, ERP module development, ML integration

WORK EXPERIENCE

Odoo Developer — *ICIT Solutions Nigeria*

Aug 2025 – Present

- Refactored and upgraded legacy Odoo modules to newer releases, improving system stability and reducing bug resolution time across client deployments.
- Integrated third-party payment gateways (Flutterwave, Blusalt) into Odoo ERP, enabling seamless transaction processing for e-commerce clients.
- Built automated export/import pipeline between Odoo and Oracle Symphony POS, synchronizing menu items, pricing, and inventory data across restaurant operations.
- Designed custom procurement and payment requisition workflows with robust error-handling and data-sync logic to maintain cross-system consistency.

Backend Developer — *Artisan Bridge*

Jan 2025 – Present

- Refactored existing API layer to reduce response times, implementing Redis caching strategies and query optimization across high-traffic endpoints.
- Migrated monolithic Django codebase toward a microservice architecture, restructuring each functionality app, messaging, and job-request services for independent scaling.
- Architected a product recommendation engine using Qdrant vector search and SentenceTransformer embeddings, improving personalized search relevance.
- Built WhatsApp automation service replacing a Selenium-based approach with a lightweight API client, supporting media and group messaging.
- Integrated Odoo ERP functionality into the Artisan Bridge platform via the Odoo XML-RPC API, enabling seamless sync.
- Designed RESTful API endpoints and real-time messaging via Django Channels and WebSocket; upgraded Odoo modules from v16 to v17/18.

IoT & Embedded Systems Intern — *NITDA Innovation Hub, Lagos*

Sep 2025 – Dec 2025

- Built functional prototypes (ESP32, Arduino, Raspberry Pi) and wrote C/C++ firmware for sensor data transmission over MQTT and HTTP.

PROJECTS

Social Media API

- Authentication, CRUD, likes, comments, follow and unfollow functionality, group and private chat functionality, feed generation with DRF and PostgreSQL.

LEADERSHIP

IEEE Computer Society Lead, UNILAG Branch

Nov 2024 – Present

- Lead workshops, webinars, and hackathons to foster technical collaboration amongst members.

Co-Lead, IEEEExtreme, Nigeria Section

Mar 2024 – Nov 2025

- Coordinated operations across Nigeria and Region 8 for the IEEEExtreme 18.0 and 19.0 competitions.

CERTIFICATIONS & ACCOMPLISHMENTS

- Google IT Automation with Python Professional Certificate (2023)
- 2nd Runner-up, IEEE TEMS Annual Global Student Case Study Competition (2025)
- Runner-up, IEEE IAS-IPCSD Engineering Student Chapter Design Contest – Africa (2023)