

Victory Nwofia

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EDUCATION

University of Lagos

Bachelor of Science (B.Sc.), Electrical & Electronics Engineering (CGPA: 4.25/5.00)

Lagos, Nigeria

Expected July 2026

Relevant Coursework: Computer Programming, Computer Design and Architecture, Software Development Techniques, Digital Systems, Communication Systems, Information Theory and Coding, Microprocessors and Microcomputers, Engineering Algebra

ALX Holberton Software Engineering School (Remote)

Nairobi, Kenya

Diploma, Software Engineering (Top 5% of 9,000 Learners)

Nov 2023 – Jan 2025

Completed a 13-months 80 hours/week project-based curriculum emphasizing peer learning, Algorithms, version control and full stack development

WORK EXPERIENCE

Robonish

Lagos, Nigeria

Software Engineer Intern

Aug 2024 – Oct 2025

- deployed a **network tunneling solution** to bypass **CGNAT** restrictions, enabling secure remote access and centralized fleet management across geographically distributed robots
- Implemented Datadog **monitoring infrastructure** on production servers to enable real-time performance tracking, proactive alerting, and system health visibility across the robot fleet
- Configured and maintained **remote SSH access infrastructure**, implementing secure authentication protocols and access controls for production robot systems
- Enhanced **authentication reliability** by implementing **TOTP-based OTP** verification with Redis caching, **reducing latency from 30ms to 2ms**.
- Integrated a library to enable dynamic **obstacle avoidance** for an autonomous delivery robot powered by **Nvidia's GPU**

PROJECTS

UNIX shell

Aug 2024

- Developed a fully functional **UNIX shell interpreter** in C programming language with **Read-Eval-Print-Loop (REPL)** architecture, replicating core bash functionality for command-line processing and execution
- Engineered command history and recall functionality utilizing **doubly linked list data structures** and temporary file I/O operations for **persistent session management**
- Implemented **inter-process communication (IPC)** using **pipe system calls** to enable **command chaining** and data streaming between multiple processes in pipeline operations

4evabraids

Aug 2025

- Built an application in Python (FastAPI) to **automate the process** of hair braiding booking appointments (like calendly), speeding up negotiations more than 9 times and leading to improved customer satisfaction.
- Implemented emailing disbursing mechanism and **Improved deliverability by 40%** using **SMTP pooling**, **TLS encryption**, and adaptive **retry mechanisms**
- **Automated setup and Deployment** of application on Microsoft Azure Ubuntu server using Bash Scripts and Linux daemon services

CardiacAI

Jun 2025

- Engineered an end-to-end **closed-loop electrocardiogram (ECG)** system integrating custom hardware, RESTful API architecture, and **machine learning models** for real-time cardiac signal interpretation and analysis.
- Optimized **AI inference pipeline** reducing **model prediction latency to under 400ms**, enabling real-time cardiac monitoring and alert generation for critical conditions
- Designed a **low-latency telemetry** communication library for IoT devices, enhancing **real-time monitoring accuracy by 15%**

AWARDS & RECOGNITION

- **1st Position twice**, Departmental Chess Competition, University of Lagos.

Nov 2023, 2024

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Engineering Teaching Assistant, University of Lagos Engineering Society

Nov 2023 – Jun 2025

- Tutored over **100 first-year** Engineering students, helping students **save on additional tutorial expenses** and achieved an impressive **70% success rate** in both continuous assessments and examinations
- Organized peer-learning sessions fostering collaboration and problem-solving in technical coursework

TECHNICAL SKILLS

- **Languages:** Python, C, C++, Go, Rust (entry level)
- **Databases:** MySQL, MongoDB, Redis, PostgreSQL
- **Tools & Platforms:** Git, Linux, Microsoft Azure, Puppet lint, Postman, Docker
- **Core Competencies:** Data Structures & Algorithms, Object-Oriented Programming, API Design, Distributed Systems, Cloud Computing, Networking