

# ABDULBAASIT I. ERINKITOLA

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## EDUCATION

University of Lagos, B.Sc. Computer Engineering

Expected Aug 2027

**Current Academic Standing:** 4.39/5.00

**Relevant Courses:** Computer Organization and Architecture, Microprocessor and Microcomputer, Switching and Logic Circuits, Signals and Systems, Physical Electronics (& Quantum Mechanics), Instrumentation.

**Professional Memberships:** IEEE, NSBE.

## SKILLS

- **Languages and Tools:** C++, Python, MATLAB, LTspice, Proteus, ESP32, Arduino, Node.js, Express, MongoDB.
- **Concepts:** Computer Organization & Architecture, Object-Oriented Programming, Data Structures & Algorithms.

## PROJECTS AND COMPETITIONS

**IEEEExtreme 19.0 Programming Competition - Python, C++**

Oct 2025

- Competed in a 24-hour global programming challenge organized by IEEE, solving complex DSA problems.
- Finished in 11th place on the leaderboard in Nigeria, demonstrating strong problem-solving skills under pressure.

**Low-Latency Portfolio Tracking API** - Node.js, Express, MongoDB, Socket.IO

Sep 2025

- An API that simulates a real-time trading portfolio tracker to solve the lack of real-time tracking for investors.
- Engineered a low-latency real-time RESTful API with less than 200ms response time, for faster trading decisions.
- Optimized database queries with indexing, reducing lookup time from  $O(n)$  scans to  $O(\log n)$ , achieving 40% faster performance on large datasets.

**University of Lagos Academic and Research Board Competition**

Aug 2025

- Wrote a research paper on “Addressing The Issue of National Grid Collapse in Nigeria”, securing first and second places in the writing phase and the grand finale of the research competition, respectively.
- Developed a comprehensive smart-grid framework to stabilize Nigeria's national power infrastructure, addressing chronic instability and \$26+ billion in annual economic losses.
- Designed a predictive maintenance model using MATLAB/Simulink for real-time transformer health monitoring (load/thermal thresholds) to anticipate and reduce unplanned outages by an estimated 30–50%.
- Modeled and implemented a FLISR (Fault Location, Isolation and Service Restoration) algorithm on a 33 kV distribution feeder, demonstrating the ability to restore power to over 57% of customers almost instantaneously.

**Automatic Water/Shower System for Hogs - ESP32, Proteus, Wokwi**

Aug 2025

- In a cross-disciplinary team of 6, engineered an ESP32-based automated system for hogs to improve thermoregulation and hygiene, directly contributing to water conservation and enhanced animal welfare.

**Automatic Solar Street Lighting System - LTSPICE**

Feb 2025

- Led a group of 10 students across 3 different engineering departments to design a working solar-powered street lighting system with motion and darkness detection using LTSPICE and 100% analog components, achieving at least 30% reduction in power consumption compared to conventional street lights without motion detection.

## EXPERIENCE

**Ignite Research Academy - Deputy Lead, Media and Communications**

Nov 2025 - Present

- Co-manage public relations and rebrand strategy, amplifying the organization's mission ahead of relaunch.
- Established a standardized, unified voice and communications protocol for the organization.

**HNG - 13 Internship - Backend Developer**

Oct 2025 - Dec 2025

- Collaborated across teams to develop the Deen AI app, successfully achieving MVP status in one month
- Engineered a TypeScript microservice that consumes messages from RabbitMQ for asynchronous email delivery.

**GRUP Agri-Tech Startup - Backend Developer**

Jun 2025 - Jul 2025

- Developed a real-time error handling system to facilitate high system availability and rapid debugging.
- Engineered a user authentication system and data validation schemas, improving system reliability by 99%.

**Microsoft Learn Student Ambassadors (MLSA) - Community & Content Manager**

Sep 2024 - Present

- Coordinated technical content strategy and community events for over 350 engineering and computer science students, increasing active technical engagement by 50%.

## CERTIFICATIONS

- **Introduction to Generative AI** - UDACITY Aug 2025
- **ALX Professional Foundations** - ALX Aug 2025
- **Accelerating Data Engineering Pipelines** - NVIDIA Mar 2025
- **Fundamentals of Deep Learning** - NVIDIA Mar 2025