**Ojo Joel Ademola**

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# Education

**Abiola Ajimobi Technical University, Ibadan | Ibadan, Oyo State**

Bachelor of Science in Electrical Engineering (Expected Graduation: 2027**)**

# Relevant Coursework

**Software Development:** Object-Oriented Programming, Database Management, Web Development

**Data Science & Engineering Tools:** MATLAB, Anaconda, Machine Learning Basics

**Embedded Systems:** Microcontrollers, Circuit Design, Embedded C Programming

**Power Systems & Electronics:** Digital Electronics, Signal Processing, Circuit Analysis

# Skills

**Programming Languages:** Python, JavaScript, C (Embedded Systems)

**Backend Development:** Django, FastAPI

**Frontend Technologies:** HTML, CSS, JavaScript

**Database Management:** PostgreSQL, SQLite

**Embedded Systems:** Arduino, Microcontroller Programming

**Tools & Technologies:** GitHub, REST API Development, MATLAB, Anaconda

**Experience**

**SWEP Internship** | First Technical University, Ibadan | Aug 2023 – Sept 2023

Intern – Electrical Engineering & Software Development

**Data Science:** Learned and applied Python with Anaconda for data analysis and visualization.

**MATLAB Proficiency:** Performed simulations and modeling for engineering problems.

**Hardware Projects:**

**Manufactured an Electrical Extension:** Designed and assembled an extension socket with custom wiring and

safety features.

**Built a Power Bank from Scratch:** Designed the circuit, selected battery components, and implemented an

enclosure using a plastic case.

**Material Testing Experiment:** Conducted a ductility test on 12 plastic bottles using a material testing machine**.** Measured and analyzed the elongation data to calculate material ductility.

**Projects**

**Notes Web App (Django & JavaScript) | 2025**

Technologies: Django, JavaScript, HTML, CSS, SQLite

Developed a full-stack web application that allows users to create, edit, and delete notes.

Implemented user authentication using Django’s built-in authentication framework.

Designed a clean and responsive UI with JavaScript for an improved user experience.

Used Django Forms for structured data input and validation.

**Weather App (Django & API Integration) | 2025**

Technologies: Django, JavaScript, HTML, CSS, OpenWeatherMap API

Developed a weather forecasting application that fetches real-time weather data from an external API.

Implemented search functionality allowing users to check the weather of any city.

Designed a user-friendly interface displaying temperature, humidity, and weather conditions.

Optimized API requests to improve efficiency and response time.

**User Authentication System (Django) | 2025**

Technologies: Django, PostgreSQL

Designed and implemented secure user sign-up and login functionality.

Integrated password encryption and authentication mechanisms.

Developed a Django Admin panel for managing user data.

**REST API Development (FastAPI) | 2025**

Technologies: FastAPI, PostgreSQL, Docker

Created a high-performance API for handling CRUD operations.

Integrated FastAPI with a PostgreSQL database for efficient data storage and retrieval.

Developed JWT-based authentication for securing API endpoints.

# Honors and Awards

**New Horizons Scholarship –** Awarded for academic excellence in secondary school.