

# OLAJIDE AYOMIDE

## EVIDENCE

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## PROFESSIONAL SUMMARY

Mechatronics Engineering student with demonstrated expertise in full-stack software development using Python, Firebase, and modern web frameworks. Proven ability to architect, develop, and deploy production-ready applications with focus on backend systems, API design, and database optimization. Skilled problem-solver with hands-on experience in automation, real-time systems, and desktop application development. Seeking software engineering internship roles where I can contribute to scalable systems and innovative solutions.

## TECHNICAL SKILLS

### Programming Languages

Python (Advanced), SQL (Advanced), JavaScript (Intermediate), HTML/CSS, C

### Backend & Frameworks

FastAPI, Flask, Flet, PyQt, Django, RESTful API Design

### Databases & Cloud

Firebase Firestore, SQLite, PostgreSQL, MySQL, Database Design & Optimization

### Tools & DevOps

Git/GitHub, VS Code, Figma, MATLAB/Simulink, Linux Terminal, Debugging & Profiling

### Specializations

Full-stack Web Development, Backend Architecture, API Integration, Desktop Application Development, Browser Extensions, Database Design, Automation & Scripting

### Soft Skills

System Design Thinking, Technical Problem-Solving, Team Leadership, Code Documentation, Mentoring, Academic Research

# PROFESSIONAL EXPERIENCE

## Student Researcher – WALE Labs (Phishing Detection & Cybersecurity)

Remote / Minna, Nigeria · 2025 – Present

- Contributing to research on phishing URL detection using machine learning and intelligent feature engineering
- Implementing Python-based data pipelines for URL collection, preprocessing, and model experimentation
- Collaborating with researchers to design experiments, analyze results, and document findings for potential publication
- Applied Python for data analysis, pattern recognition, and machine learning model implementation

## Backend Development Intern | Juanlee Integrated Services Ltd

Abuja, Nigeria · 2024 – Present

- Developed FastAPI-based backend services for production applications, implementing efficient API endpoints and database queries
- Designed and optimized SQL database schemas for improved query performance and data integrity
- Collaborated with team members on feature development, code review, and technical documentation
- Debugged complex backend issues and implemented scalable solutions for API integration challenges

## Tutorial Host – Student Support

FUTMINNA · 2024 – Present

- Led peer-to-peer tutorials in core engineering and programming courses, helping 20+ students understand difficult concepts
- Created example problems and explanations, improving classmates' exam readiness and academic confidence

## Online Technical Educator – Python Tutor

Remote · 2024 – Present

- Tutored beginners in Python fundamentals through online platforms, focusing on practical programming skills and best practices

- Developed clear explanations for complex concepts, building foundational knowledge for aspiring developers

## PROJECTS & ACHIEVEMENTS

### Lectura OS – PDF-to-Audio Educational Platform

**Tech Stack:** FastAPI (Backend), React/Vue (Frontend), Firebase, Python

**Role:** Full-Stack Developer

- Architected scalable backend API for converting PDF documents to high-quality audio output with real-time processing
- Implemented secure authentication, file processing pipeline, and cloud storage integration with Firebase
- Designed responsive web frontend with intuitive user interface for seamless document management
- Optimized performance to handle concurrent user requests and large file processing efficiently

### Attendance Web Application

**Tech Stack:** Python/Flask, SQLite, HTML/CSS, JavaScript

- Engineered secure web-based attendance management system with role-based authentication and data validation
- Implemented automated attendance tracking logic with real-time data synchronization across multiple users
- Created admin dashboard for student record management, attendance analytics, and report generation
- Developed intuitive UI for quick attendance marking, reducing manual workload by automating tracking processes

### Lecture Announcer – Real-Time Notification Platform

**Tech Stack:** Firebase, JavaScript, HTML/CSS, Firestore Database

**Leadership Role:** Project Lead

- Designed and deployed real-time announcement system enabling 500+ student-lecturer communication and collaboration
- Implemented Firestore database architecture for instant notification delivery and message persistence
- Built responsive web interface for broadcast announcements, message history, and notification tracking

- Managed project roadmap as Project Lead, coordinating feature development and successful deployment

## Smart Microgrid System Simulation

**Tech Stack:** MATLAB Simulink, Power Systems Engineering

**Leadership Role:** Team Lead

- Modeled and simulated solar-powered campus microgrid with automated backup switching logic for reliability
- Implemented control algorithms for intelligent power distribution and load balancing optimization
- Validated system stability and efficiency through comprehensive simulation analysis and testing
- Served as Team Lead, directing system architecture design and guiding team members through simulation modeling

## Clarity Web Summarizer – Browser Extension

**Tech Stack:** JavaScript, Chrome APIs, Client-Side Processing

- Engineered lightweight browser extension enabling one-click webpage summarization for improved reading efficiency
- Implemented client-side NLP logic to reduce server dependency, enhance privacy, and ensure offline functionality
- Optimized performance for instant summarization without external API calls, improving user experience
- Enhanced user comprehension and browsing efficiency across diverse content types and text formats

## Additional Projects

- **To-Do List Manager (PyQt):** Desktop task management application with calendar integration, reminders, and advanced filtering capabilities
- **Offline Chatbot (Python):** Lightweight NLP chatbot agent with local inference capabilities and conversational responses
- **Quiz Application (Python GUI):** Interactive scoring system with result tracking, performance analytics, and question navigation

# EDUCATION

**Federal University of Technology, Minna**

Bachelor of Engineering (B.Eng.) in Mechatronics Engineering · **2024 – Present**

## Secondary Education

- Secondary School Certificate (WAEC) – 2023
- First School Leaving Certificate (FSLC) – 2017

# LEADERSHIP & COMMUNITY INVOLVEMENT

## Project Lead – Lecture Announcer App

Coordinated cross-functional team for feature planning, development sprints, and deployment strategy

## Team Lead – Smart Microgrid Project

Directed system modeling, simulation logic, and technical implementation for campus-scale engineering project

## Peer Mentor & Tutor

Mentored 20+ students in Python fundamentals, academic adjustment, and technical problem-solving

Hosted regular peer-to-peer tutorials supporting academic success across engineering discipline

## Community Volunteer

Actively involved in community service, event organization, and technical support initiatives at FUTMINNA

# AWARDS & RECOGNITION

- **Hackathon Achievement:** 3rd Place – Futminna MATLAB Space Hackathon (Team Smart Watt, 2025)
- **Speaker:** Tech Ignite 2025 – Presented on emerging technologies and software development

# LANGUAGES

English (Fluent), Yoruba (Native Speaker)

# REFERENCES

**Dr. Akin Okinbaloye**

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