OFFORDUM MICHAEL CHIDUBEM

BACKEND ENGINEER | PYTHON / DJANGO | IoT DEVELOPER

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PROFESSIONAL SUMMARY

Backend-focused software developer with hands-on experience building Django applications, RESTful APIs, server-side business logic, database-backed systems, authentication, debugging, and production deployments. Strong Python foundation with experience collaborating on frontend integrations and working with relational databases. Brings additional experience in Java, IoT/embedded systems, and technical instruction, with a focus on reliable and maintainable backend solutions.

CORE TECHNICAL SKILLS

- **Backend Development:** Python, Django, server-side application development, backend architecture
- **APIs:** RESTful API design, API integration, frontend/third-party integration
- **Databases:** Relational database concepts, MySQL, PostgreSQL, database design and optimization
- **Security:** Authentication, authorization concepts, data validation
- **Engineering:** Debugging, testing, performance optimization, problem solving
- **Version Control:** Git, GitHub
- **Additional:** Java, JavaScript, React, Arduino/embedded systems

PROFESSIONAL EXPERIENCE

BACKEND DEVELOPER (FREELANCE) | *Poctova — Lagos, Nigeria* | *Sep 2024 – Dec 2025*

- Developed and maintained backend applications using Django and Python.
- Designed and implemented RESTful APIs for web applications and integrations.
- Built server-side business logic to support frontend applications and third-party integrations.
- Designed and optimized relational database structures with a focus on performance and reliability.
- Implemented authentication and data validation mechanisms for backend applications.
- Collaborated with frontend developers to ensure reliable API consumption and integration.
- Debugged backend issues and resolved performance bottlenecks.
- Deployed and maintained backend applications in production environments.

PYTHON INSTRUCTOR (PART-TIME) | *Smart Hub Academy — Lagos, Nigeria* | *Sep 2019 – Oct 2024*

- Delivered Python programming training from foundational to advanced levels.
- Mentored learners in backend logic, programming fundamentals, and problem solving.
- Guided students through robotics and embedded-system projects involving practical software development.
- Supervised practical IoT-based project implementations and troubleshooting.

ROBOTICS & AI ASSISTANT | *SOAIR AFRICA — Lagos, Nigeria* | *May 2024 – Aug 2024*

- Supported the development and delivery of robotics and AI curriculum and practical sessions.
- Troubleshot software, AI, robotics, and embedded-system implementation issues.
- Supported AI-based system development and practical robotics activities.
- Contributed research on emerging AI technologies.

WEB DEVELOPER INTERN | Centre For Technology — Lagos, Nigeria | 2019–2020

- Assisted with building and updating website pages using core web technologies.
- Supported page layouts and styling, with attention to usability and consistency.
- Tested website pages, identified display or functionality issues, and assisted with basic fixes.
- Worked with team members to complete assigned web development tasks and improve existing pages.

PROJECTS

SELECTED PROJECTS myIoT Dashboard — Django Backend Paired with ESP32 Hardware — *Django Channels, WebSockets, API-key auth*

- Built a real-time dashboard bridging software and hardware: ESP32 + DHT11 sensor devices streaming data over WebSocket consumers.
- Implemented device registration, API-key authentication, and last-seen tracking for connected devices.

myMarket — Full Stack Marketplace — *Django, DRF, Celery/Redis, React/Vite, Stripe*

- Built a Jiji-style marketplace with vendor management, order handling, Stripe payments, and Celery/Redis for async tasks.
- Backend deployed and live: ecommerce-bulm.onrender.com

CheckoutFlow — Payment & Webhook Automation — *Django, Paystack API*

- Implemented a one-time payment checkout flow with Paystack, including webhook verification logic.

Real-Time Chat API — *Django Channels, Daphne, JWT*

- Built WebSocket-based real-time messaging with a custom JWT authentication middleware.

EDUCATION

Bachelor of Science (B.Sc.) in Computer Sciences — University of Lagos | 2019 – 2025

ADDITIONAL STRENGTHS

Strong analytical and problem-solving skills; clear communication and teamwork; experience explaining technical concepts through programming instruction; practical exposure to software, IoT, robotics, and embedded systems.