

SAMUEL OSHIN

PYTHON BACKEND ENGINEER

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PROFESSIONAL SUMMARY

Aspiring Python Backend Developer with hands-on experience from internships, personal projects, and machine learning initiatives. Engineered scalable web applications, REST APIs, and microservices using Django, FastAPI, and React/Next.js. Delivered ML project with 96.98% accuracy in AI-generated image detection and production-ready API mocking platform. Ranked top 5% among 10,000+ developers. Eager to blend backend development with AI technologies in entry-level remote roles.

SKILLS

Backend & APIs: Python, Django, FastAPI, Django REST Framework, REST API Development, Microservices Architecture
Frontend: React, Next.js 15, JavaScript, HTML, CSS, WebSocket Connections
Databases: PostgreSQL, MySQL, Database Design
Machine Learning & AI: PyTorch, Computer Vision, Feature Engineering, Scikit-learn, OpenCV, LangChain, OpenAI APIs
Tools & DevOps: Git, Docker, AWS, CI/CD Pipelines, System Administration, WebSocket Implementation
Other: Authentication Systems, Real-time Applications, Full-Stack Development, Agile Collaboration (Remote Tools: Slack, Jira, Zoom)

WORK EXPERIENCE

Backend Engineer Intern (Finalist)

Jan 2025 – Apr 2025

HNG Internship (Remote)

- Engineered and deployed 10+ REST APIs with Python, Django, and FastAPI for LLM-integrated applications, enabling seamless data flows.
- Designed 15+ REST endpoints for AI-powered backend generator, achieving 90%+ test coverage and integrating Anthropic LLM via custom prompts and API orchestration.
- Wrote comprehensive tests for API functions, applying black box, white box, unit, and integration tests to ensure robust performance.
- Optimized CI/CD pipelines and agile processes in remote cross-functional teams, boosting deployment speed by 25%.
- Ranked top 5% among 10,000+ backend developers via Python-focused projects.

IT Support Officer

Aug 2024 – May 2025

Coleman Technical Industries (NYSC)

- Automated daily ERP backup processes for Oracle and Odoo systems using Python scripts
- Resolved 100+ user support tickets through systematic troubleshooting, improving system uptime by 25%
- Implemented security monitoring solutions, significantly reducing endpoint security incidents
- Responsible for documenting Standard of Operation (SOP) for the Odoo application role rights

Software Developer & IT Support (SIWES)

Jan 2025 – Apr 2025

WML-Integrated Solutions @ PZ Cussons

- Developed Django-based ticketing system from scratch, reducing IT issue resolution time by 40%
- Provided network and hardware troubleshooting support across 3 departments
- Built internal tools using Python for process automation and system monitoring

PROJECTS

MockBox - Professional API Mocking Platform – Python, FastAPI, PostgreSQL, Next.js 15, AI

Integration

- Built comprehensive API mocking platform during Bolt.new hackathon featuring AI-powered mock data generation, real-time simulation, and analytics dashboard. Implemented secure multi-

provider authentication (email, Google) with modern responsive UI for developer teams and QA workflows.

[Live Demo](#) + [GitHub](#)

AI-Generated Image Detection System – Python, PyTorch, FastAPI, Computer Vision

- Built end-to-end ML pipeline to detect AI-generated images using CNN (ResNet18) and handcrafted features. Achieved 96.98% validation accuracy on CIFAKE dataset with custom training loop, feature engineering (16+ features including DCT stats, LBP, edge detection), and deployed via Gradio on Hugging Face Spaces.

[Live Demo](#)

Real Estate Platform (Microservices Architecture) – Django REST Framework, React/Next.js, PostgreSQL

- Revamped monolithic property management platform into modern microservices architecture. Built RESTful backend APIs with Django REST Framework and dynamic React/Next.js frontend with advanced search, filtering, and responsive design for optimal user experience.

[Live Demo](#) + [Github](#)

E-commerce Web Application – Python, Django, PostgreSQL, JavaScript

- Built complete online shopping platform featuring user authentication, product catalog, shopping cart, and order management. Integrated payment processing and inventory tracking systems with comprehensive admin dashboard.

CodeBeGen - Low-Code Backend Generator – Python, Django, LangChain, AI Agents

- Co-created backend code generation tool during Microsoft Hackathon 2025. Integrated LangChain for AI-powered code scaffolding and automated API creation. Demonstrates growing AI engineering skills applied to backend development.

[Github](#)

EDUCATION

Bachelor of Science in Computer Science – Lagos State University

Feb, 2019 – Feb, 2024

VOLUNTEERING

Mentor Me Collective (Grow with Google)

- IT Automation with Python (SWE) Track Lead

Aug 2025 - present