Benjamin Shado

Backend & Data Engineer | Python, FastAPI, PostgreSQL, Data Pipelines, AI Systems
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Summary

I build backend systems and data infrastructure that turn complex problems into simple, scalable software. Experienced in designing relational data models, REST APIs and data pipelines with Python, FastAPI and PostgreSQL, and in applying machine learning to real-world data. Detail-oriented, with an eye for clean system design and usable products.

Technical Skills

Backend: Python, FastAPI, REST APIs, SQL, Authentication, Business Logic & Validation
Databases: PostgreSQL, SQLAlchemy, Alembic, Relational Database Design
Data & AI: Pandas, NumPy, ETL Pipelines, Scikit-learn, XGBoost, SHAP, Statistical Analysis
Frontend & Design: React, Streamlit, Plotly, UI/UX Design
Tools: Git, GitHub, Docker, Notion, Slack

Experience

Backend Software Engineer July 2026 – Present
Large-Scale Poultry Operation *Lagos, Nigeria*

- Replaced a manual, spreadsheet-driven farm reporting workflow that required days of coordination and data consolidation with a full-stack farm management platform, built from the ground up using FastAPI, PostgreSQL, SQLAlchemy, and React, featuring custom UI/UX and on-demand dashboards.
- Modeled 8+ farm operations domains—including inventory, store equipment, egg production, feed, fuel and oil usage, pen logs, sales, and staff payroll—in a relational database with REST APIs, authentication, validation, and business logic; the initial release tracked NGN 100M+ in transactions.
- Prototyped in Streamlit (live Aug 2026), then rebuilt as a FastAPI backend and React frontend on a redesigned schema built to scale (live Oct 2026); used daily by the owner and managers.

AI & Data Science Intern May 2026 – Oct 2026
FlexiSAF EduSoft *Abuja, Nigeria*

- Consolidated 5 inconsistent raw datasets (12,150 students, 480K+ records) into a clean, analysis-ready table and surfaced attendance/performance correlation findings, by building a pandas cleaning-merge pipeline and documented Jupyter notebook.
- Delivered a self-service analytics dashboard for exploring student performance data, by building an interactive Streamlit app with dynamic filters, KPIs, and visualizations.

Robotics STEM Instructor (NYSC) June 2026 – Present
Talent Code Africa *Lagos, Nigeria*

- Teach robotics and electronics, guiding students through building Arduino-based projects with sensors and servo motors.

UI/UX Design Intern June 2024 – Nov 2024
FlexiSAF EduSoft *Abuja, Nigeria*

- Designed a smart home control system interface end to end as the internship's capstone project, applying usability and visual design principles.

Projects

Algorithmic Trading Research & Optimization Engine | *Python, Pandas, NumPy, Matplotlib*

- Engineered a strategy research system that increased expected value per trade by 235% and reduced risk by 75%, stress-testing 7 years of NQ and ES futures data through 10,000 Monte Carlo simulations.
- Audited and filtered news event datasets to eliminate false signal triggers, improving win rate from 19.8% to 43.3% and lowering drawdown.

Credit Card Fraud Detection | *Python, Pandas, Scikit-learn, XGBoost, SHAP*

- Developed an XGBoost model on 284K+ records with severe class imbalance (<0.2%), detecting 84% of fraudulent transactions (0.97 AUC-ROC, 0.86 F1).
- Used SHAP to translate feature importance into actionable insights for non-technical stakeholders.

Education

Federal University of Technology, Minna (FUTMINNA) Minna, Nigeria
Bachelor of Technology in Computer Science *Nov 2019 – Dec 2025*