Olatunji Oluwatobiloba Franklin

AI Engineer | Python Backend | Applied Machine Learning
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SUMMARY

Computer Engineering undergraduate (CGPA 4.83/5.00) who builds AI-enabled Python backend systems. Deployed a full-stack app with a behavioural scoring algorithm, built a tested Flask ML API, and helped a certificate-verification workflow place in the top 3% at Squad Hackathon 3.0. Prototyped OCR and vision-language document extraction during a banking IT internship.

EDUCATION

B.Eng. Computer Engineering, Covenant University, Ota, Nigeria — Expected Oct 2029
CGPA 4.83/5.00

TECHNICAL SKILLS

Programming: Python, JavaScript, SQL
AI/ML: scikit-learn, model evaluation, feature engineering, Hugging Face model experimentation, OCR and document extraction
Backend & Data: FastAPI, Flask, REST APIs, SQLAlchemy, Supabase, PostgreSQL, JWT authentication
Engineering: Docker, pytest, automated testing, Git/GitHub, API integration, deployment, technical documentation

PROJECTS

FocusPilot — Live application
Python, FastAPI, React, Chrome Extension (Manifest V3), Supabase, PostgreSQL

- Built an integrated app with a FastAPI backend, React dashboard, and Chrome Extension for browser activity tracking and website blocking.
- Implemented a four-factor behavioural distraction-scoring algorithm using tab-switching frequency, dwell time, site category, and focus-session data.
- Integrated Supabase/PostgreSQL with JWT-authenticated API communication; wrote 35 backend and 14 frontend tests; deployed on Vercel (frontend) and Render (backend).

VerifyNG: Certificate Verification Workflow — Squad Hackathon 3.0
Python, Webhooks, Machine Learning

- Led AI/ML and backend work on a workflow connecting certificate uploads, Squad webhook integration, and trust scoring.
- Contributed to a top 3% finish (48 of 1,600 teams).

Loan Prediction API — Live demo
Python, Flask, scikit-learn, pytest

- Developed a Flask REST API that compares four machine-learning models for loan-approval prediction; the selected model reached 88.62% accuracy on the project's evaluation dataset.
- Added input validation, prediction history, API documentation, and automated tests with about 83% coverage.

EXPERIENCE

Information Technology Intern — Aug–Sep 2026
Union Bank of Nigeria Plc.

- Prototyped document-to-JSON extraction from bank forms using pretrained OCR and vision-language models; evaluated a 24-form sample and documented data and model-fit limitations.
- Rotated across IT support, backend engineering, and software QA; wrote and ran web-application test cases, logged defects, and captured evidence.
- Troubleshot endpoints, handled Windows installation and system imaging, and performed TFTP-based software downgrades on 50 Cisco C1100 routers.