

# Oluwatobiloba Olatunji Franklin

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## EDUCATION

### Covenant University

*B.Eng. Computer Engineering; CGPA: 4.86/5.00; First Class*

Ota, Nigeria

*Expected 2028*

**Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence and Machine Learning, Software Engineering, Database Management, Statistics, Computer Networks, Computer Organisation and Architecture, Web Technology

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL

**Software Engineering:** Data Structures and Algorithms, REST APIs, FastAPI, Flask, React, SQLAlchemy, JWT, pytest, Postman, Swagger

**Data and Storage:** PostgreSQL, MySQL, SQLite, Supabase, Pandas, NumPy

**Cloud and Infrastructure:** Docker, AWS, Vercel, Hugging Face Spaces, GitHub Actions, Linux, Git

**ML and Systems:** PyTorch, TensorFlow, scikit-learn, Federated Learning, Reinforcement Learning, NLP

## EXPERIENCE

### Union Bank of Nigeria Plc.

*IT Intern*

Lagos, Nigeria

*Aug 2026 – Present*

- Support enterprise technology operations in a banking environment, working with technical workflows and cross-functional teams.

### Covenant University

*Engineering Design Intern (SWEP)*

Ota, Nigeria

*Jun 2025 – Aug 2025*

- Designed and iterated biodigester concepts using Fusion 360 and AutoCAD, translating engineering requirements into practical CAD designs.

### HVAC Solutions Nigeria

*Design Engineering Intern*

Lagos, Nigeria

*Aug 2024 – Sep 2024*

- Supported HVAC design-engineering activities and applied engineering principles to practical building-services design work.

## SOFTWARE ENGINEERING PROJECTS

### FocusPilot | FastAPI, Chrome MV3, Supabase, React

*2026*

- Built a Chrome extension and FastAPI backend for behavioral distraction detection using 15 behavioral features; separated monitoring, decision-making, execution, and learning into distinct components.
- Implemented JWT authentication, persistent synchronization, and automated testing, reaching 49 tests across backend and frontend components.

### VerifyNG | Python, FastAPI, Supabase, Computer Vision

*2026*

- Led a 3-person team building a certificate-verification platform; designed a trust-scoring pipeline producing verdicts, confidence levels, and fraud flags.
- Ranked in the Top 3% (best 48 of 1,600+ teams) at Squad Hackathon 3.0; deployed the product for live demonstration.

### AI Loan Approval API | FastAPI, PostgreSQL, scikit-learn

*2026*

- Benchmarked four ML models and achieved 88.62% accuracy; reduced API latency 3–4× through caching and added PostgreSQL request logging.
- Documented REST endpoints with Swagger and reached approximately 83% test coverage.

### FedRec | PyTorch, Federated Learning, Streamlit

*2026*

- Implemented Federated Averaging across simulated devices and improved recommendation accuracy by 34%, using privacy-preserving distributed training rather than centralizing user data.

## LEADERSHIP AND HONORS

**2nd Place, Cisco IoT Innovation Competition (2024):** built an IoT vehicle speed detector using paired IR sensors, LCD output, and alarm warnings.

**100/200 Level Coordinator, Covenant University Chapel Technical Crew (Sep 2024 – Jul 2025):** mentored 150+ students, onboarded 50+ members, and created a 16-step development framework.

**Graphics Head, Covenant University Chapel Technical Crew (Sep 2025 – Jul 2026):** led visual communications for events attended by 10,000+ people.

**Cisco CCNA:** Introduction to Networks (ITN) and Switching, Routing and Wireless Essentials (SRWE), 2025–2026.