

Ayoola Lucas

Backend Software Engineer

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PROFILE

Backend Software Engineer with hands-on experience building robust REST APIs, microservices, and data-driven systems using Java and Spring Boot. Currently in my final years of a B.Sc. in Software Engineering at Babcock University, complemented by a completed NIIT certification. Proven ability to deliver production-ready systems in startup and collaborative team environments, with growing expertise in containerisation and AI-powered application development.

EXPERIENCE

Backend Engineering Intern — Huraflo

August 2025 – March 2026 | Logistics Tech Startup

- Designed and developed RESTful APIs for core logistics operations including shipment tracking, route management, and order processing using Java and Spring Boot.
- Collaborated with the product team to translate business requirements into scalable, maintainable backend services.
- Wrote and maintained API documentation to support frontend integration and third-party consumers.
- Participated in code reviews, contributing to improved code quality and consistency across the codebase.

Backend Developer — Babcock University Computer Club (BUCC Dev Team)

January 2025 – Present | Babcock University, Nigeria

- Contribute to the development and maintenance of internal university software systems as part of a collaborative developer team.
- Build and optimise backend services and database schemas to support campus-facing applications.
- Work in an Agile team environment, participating in sprint planning, code reviews, and technical discussions.

PROJECTS

CareSphere — AI-Powered Home Healthcare Platform

Tech Stack: Spring Boot, Spring AI, GPT-4o, React, TypeScript, PostgreSQL, Docker

- Built a B2B2C healthcare platform connecting patients with verified home care providers via AI-driven matching and recommendations.
- Integrated GPT-4o via Spring AI to power an intelligent health guidance assistant and provider recommendation engine.
- Designed RESTful APIs for patient onboarding, provider management, appointment scheduling, and real-time care tracking.
- Containerised the full application with Docker for consistent development and deployment environments.

Shadow Balance System — Fintech Ledger Infrastructure

Tech Stack: Java, Spring Boot, MySQL

- Developed a real-time shadow ledger system that mirrors core banking transactions for independent balance reconciliation.
- Implemented event-driven balance tracking to support fraud detection, audit trail generation, and financial reporting.
- Designed a fault-tolerant architecture ensuring consistency between primary and shadow records under high transaction volumes.

CampusHub — University Community Platform

Tech Stack: Spring Boot, React, TypeScript, PostgreSQL, WebSockets

- Collaborated in a team to build a university engagement platform featuring lost & found reporting, dedicated campus channels, and class/event announcements.
- Implemented live push notifications using WebSockets to deliver real-time alerts to students.

- Contributed to backend API design and database modelling across the multi-feature platform.

EDUCATION

B.Sc. Software Engineering (In Progress) — Babcock University, Nigeria

2022 – Present | 3rd Year

Software Engineering Certification — NIIT

2023 – 2024 | Completed

SKILLS

Languages: Java, JavaScript, TypeScript

Frameworks & Libraries: Spring Boot, Spring AI, React, Tailwind CSS

Databases: MySQL, PostgreSQL

Tools & Platforms: Docker, Git, GitHub

Concepts: REST API Design, Microservices, OOP, Agile / Scrum