Ayoola Lucas

Backend Software Engineer | Java, Spring Boot, Python, PostgreSQL
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PROFESSIONAL SUMMARY

Backend software engineer and third-year Software Engineering student at Babcock University, specializing in Java, Spring Boot, Python, and PostgreSQL. Experienced in designing reliable, secure REST APIs and event-driven systems, including an idempotent webhook delivery service verified by 83 automated tests and a live web application. Completed a backend engineering internship at a logistics startup and is building toward AI-integrated backend systems.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, SQL
Backend: Java 21, Spring Boot, Python, Spring AI, REST API Design, OpenAPI, Server-Sent Events, WebSockets, Idempotent APIs
Frontend: React, Next.js, TypeScript, Tailwind CSS
Databases: PostgreSQL, MySQL, Flyway Migrations, Transactions and Row-Level Locking, Database Design
Security: HMAC-SHA256 Signing, AES-256-GCM Encryption, Token-Based Authentication, Multi-Tenant Isolation
DevOps and Testing: Docker, Docker Compose, GitHub Actions CI, Nginx, Prometheus, Maven, JUnit, Playwright, Git, GitHub
Concepts: Microservices, Event-Driven Architecture, Retry and Backoff, Concurrency Control, OOP, Code Review, Agile / Scrum

PROJECTS

RelayForge | Multi-Tenant Webhook Delivery Backend github.com/TobilobaLucas/relayforge
Tech: Java 21, Spring Boot, PostgreSQL 17, Flyway, Docker Compose, GitHub Actions, Prometheus, OpenAPI
- Built a webhook delivery service that accepts events and delivers signed webhooks to subscribed endpoints in the background, with per-project tenant isolation.
- Made intake durable and idempotent: the event, delivery jobs, quota changes, and audit record commit in one transaction, and duplicate submissions are caught by idempotency keys.
- Used PostgreSQL as both source of truth and job queue (FOR UPDATE SKIP LOCKED) with virtual-thread workers, exponential backoff with jitter, lease reclaiming with fencing tokens, and dead-letter replay.
- Secured delivery with HMAC-SHA256 signatures, AES-256-GCM encrypted secrets, and public-address validation; verified with 83 automated tests against real PostgreSQL 17.

SplitCash | Subscription Cost-Sharing Platform SplitCash (Live)
Tech: Next.js, React, TypeScript, Tailwind CSS, Spring Boot, Cloudflare Workers
- Built and launched a live web app where households organize private subscription crews, see each member's exact contribution, and track payments and access in one place.
- Designed the product and interface end to end, including a custom colour system and clean card-based layout, and built the Spring Boot backend that powers it.

CaseFile | Cooperative Multiplayer Detective Game github.com/TobilobaLucas/casefile
Tech: Java 21, Spring Boot, React, TypeScript, Python, PostgreSQL, Server-Sent Events, Docker Compose, Nginx
- Built a real-time game where up to eight players share an evidence board, interview suspects, and make evidence-backed accusations, with a Spring Boot API enforcing rooms, validation, and hashed token sessions.
- Synced live state over Server-Sent Events with row-level locking and idempotent retries, and wrote a Python generator of seeded mysteries checked for a unique solution.
- Tested with JUnit, Playwright, and a 500-seed Python suite, with GitHub Actions jobs for frontend, Java, and Python.

WORK EXPERIENCE

Backend Engineering Intern, Huraflow (Logistics Tech Startup) Aug 2025 - Mar 2026
- Designed and developed RESTful APIs in Java and Spring Boot for shipment tracking, routes, and order processing.
- Translated business requirements from the product team into scalable, maintainable backend services.
- Wrote and maintained API documentation to support frontend integration and third-party consumers.
- Participated in code reviews, improving code quality and consistency across the codebase.

Backend Developer, Babcock University Computer Club (BUCC Dev Team) Jan 2025 - Present
- Develop and maintain internal university software systems as part of a collaborative developer team.
- Build and optimize backend services and database schemas for campus-facing applications.
- Work in an Agile team: sprint planning, code reviews, and technical discussions.

EDUCATION

B.Sc. Software Engineering (3rd Year), Babcock University, Nigeria 2024 - Present

Software Engineering Certification, NIIT 2023 - 2024