

AJAYI OLUWATISE

+2349126911707 | oluwatiseajayi393@gmail.com | [linkedin.com/in/Oluwatise-ajayi](https://www.linkedin.com/in/Oluwatise-ajayi) | github.com/Oluwatise-ajayi

EDUCATION

University of Lagos

Bachelor of science in systems engineering

Akoka, Lagos

Oct 2021 – Aug 2027

RELEVANT COURSEWORK

Data Structure and Algorithm, Arduino and Robotic Operating System, Fluid Mechanics and Thermodynamics Simulation in fluids and solid using Ansys, Product design with Autodesk Fusion, Statistical quality control and quality assurance.

EXPERIENCE

Boolbyte

JANUARY 2025 - TO DATE

Backend developer intern / Developer advocate

- Integrated **Paystack** into ByteEngine, including custom recurring billing using saved authorization URLs.
- Led **developer advocacy** efforts by onboarding engineers, creating internal guides, and supporting teams adopting ByteEngine thereby accelerating platform adoption.
- Conducted internal **QA testing** and built production-quality demo projects on ByteEngine.

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OCTOBER 2025 - DECEMBER 2025

Backend developer intern

- Worked in a simulated real company environment, applied for roles, collaborated across tracks, and delivered production-style features under strict deadlines.
- Contributed to a distributed notification platform built with **microservices**, **message queues**, and **REST + async** communication patterns, capable of processing 1,000+ notifications/min.
- Implemented **service discovery** using etcd, enabling dynamic service routing and scaling across independently deployed services.
- Integrated **caching (Redis)**, structured logging, correlation IDs, and monitoring to track message flow, error rates, and queue performance.
- Wrote **CI/CD pipelines** and containerized services using **Docker**, ensuring reliable multi-service deployments and seamless contributions from teammates using PHP, Node.js, Go, and Python.

TECHNICAL SKILLS

- Languages: TypeScript, JavaScript, Python, SQL.
- Frameworks: NestJS, Node.js, FastAPI (working knowledge).
- Developer Tools: Git, Docker, Docker Compose, Postman, Nx.
- Databases: PostgreSQL, Redis, MongoDB, MySQL.
- Message Queues: RabbitMQ.
- Cloud & DevOps: Nginx, CI/CD, Containerization.
- Libraries: TypeORM, Prisma, OpenAPI/Swagger, Paystack SDK.
- Operating Systems: Windows, Linux.

PERSONAL PROJECTS

ServicePulse (AI-Powered API Monitor)

Engineered a conversational API testing agent using the Mastra framework and TypeScript, implementing the Agent-to-Agent (A2A) protocol via JSON-RPC 2.0 to enable seamless bidirectional communication between Telex.im and the testing logic

Health Chatbot (ByteEngine)

Implemented custom tool-use logic within the Boolbyte Engine to detect emergency keywords and query the OpenStreetMap Nominatim API, delivering real-time, geolocation based hospital data to users during critical interactions.