

Jason Osikoya

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EDUCATION

Babcock University

Bachelor of Science in Computer Science

Lagos, NG

Jan. 2021 – Jul. 2024

EXPERIENCE

Software Engineer

Jan. 2025 – May 2025

Punch Group — NestJS, TypeScript, MongoDB, Stripe, Pinecone, RabbitMQ, Docker

Lagos, NG

- Pioneered AI-driven inventory assistants leveraging RAG principles, vector databases (**Pinecone**), and asynchronous messaging (**RabbitMQ**) to deliver smart, responsive inventory insights, automating 30% of queries.
- Launched a compliant **Stripe Connect** integration to facilitate global payments for users and vendors across multiple countries including the USA, Spain, and Italy.
- Architected an AI abstraction layer enabling compatibility with multiple LLM providers (**OpenAI, DeepSeek**), reducing integration time for new models by **60%** and supporting long-term extensibility.
- Implemented an audit logging system to track critical use activities such as report generation and data exports, enhancing traceability, and reducing security incident investigation time by **40%**.

Software Engineering Intern

Nov. 2024 – Jan. 2025

Chronos Capital Limited — Quasar, Vue.js, TypeScript, PostgreSQL, Redis, CapacitorJS

Lagos, NG

- Improved system reliability by diagnosing root causes of transactional discrepancies, boosting transaction reflection accuracy by **40%** through strategic code optimizations.
- Engineered a **cronjob-based** status assignment algorithm to classify loan applicants using historical repayment data, reducing manual intervention and enabling near real-time risk profiling across **1000+ accounts**.
- Created an analytics and **charting micro service** for visualizing capital flow across **4** core branches in the city.
- Built a **Redis-backed** user validation layer for authentication flows, including a secure "forgot password" feature

Python-Django developer Intern

Jan. 2023 – Jul. 2023

Infitron Technologies — Bootstrap, Django, Python, SQLite

Lagos, NG

- Developed and maintained 2 scalable, secure web applications using **Django**, adhering to best practices, ensuring high performance and security.
- Optimized and managed relational databases, including schema migrations and writing efficient SQL queries, reducing page load times by 30%.

PROJECTS

Event-Driven Market Data Stream Processor [visit](#)

Jul. 2025

- Developed a **real-time stock data processing pipeline** using NestJS, Redis Sorted Sets to calculate rolling 10-minute min/max prices, and an event-driven architecture to ingest and simulate live market tick data.
- Implemented a stock alert system that triggers email notifications on 10%+ price changes within sliding windows.
- Crafted a responsive Next.js UI enabling 50+ test users to subscribe to live stock alerts and visualize price movement trends in real-time.

TCP-Based Key-Value Database [npm package](#)

Jun. 2025

- Designed a lightweight TCP-based key-value database in TypeScript with JSON file persistence and custom protocol parsing over raw sockets with <50ms response times.
- Packaged the project into an installable npm module **tcp-kvdb** (100+ downloads), allowing developers to embed and run the database in their applications with minimal setup.
- Exposed core database functionality via a simple command set (**SET, GET, DELETE, LIST**) and supported multi-client TCP connections with real-time updates to disk.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Frameworks: NestJS, Django, React.js, Next.js, Vue.js, Quasar

Tools/DevOps: Docker, Redis, RabbitMQ, CI/CD pipelines, Jest

Cloud/Platforms: Render, Vercel, Amazon S3

Databases/APIs: PostgreSQL, MongoDB, SQLite, REST