Jason Osikoya

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EDUCATION

Babcock University — Lagos, NG
Bachelor of Science in Computer Science — *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.

Trading Performance Analytics System (TPAS) source code — Sept. 2025

- Developed a Django-based application for logging and analyzing trades, supporting 1,000+ trade records per user.
- Implemented REST APIs with Django REST Framework to calculate and expose key performance metrics (win rate, cumulative P&L, Sharpe ratio), reducing manual trade analysis time by 70%.
- Configured MySQL for storage of trade history and optimized query performance, achieving 40% faster retrieval of historical analytics compared to naive implementations.

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, MySQL, REST