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.
- Designed 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.
- Created and deployed end-to-end business and operational reports, tracking KPIs such as active vendors and customer satisfaction ratings. Increasing stakeholder visibility and accelerating decision-making by **30%**.
- 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 Engineer Intern   Nov. 2024 – jan 2025
Chronos Capital Limited — Quasar, VueJS, JavaScript, 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.
- Reengineered key client side data flow processes to boost overall system performance (reduced TTL by 10%),stability, and scalability
- Engineered a **cronjob-based** status assignment algorithm to auto-classify loan applicants using historical repayment behavior, 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, with location-based filters
- Built a **Redis-backed** user validation layer for authentication flows, including a secure "forgot password" feature

Python-Django developer Intern   Jan 2023 – July 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.
- Engineered and managed relational databases, including schema migrations, performance optimizations, and writing efficient SQL queries, reducing page load times by 30%.

PROJECTS

Event-Driven Market Data Stream Processor visit

- Built a **real-time stock data processing pipeline** using NestJS, Redis, and an event-driven architecture to ingest and simulate live market tick data.
- Implemented monotonic queues with Redis Sorted Sets to calculate rolling 10-minute min/max prices and detect significant price fluctuations per stock.
- Engineered a stock alert system that triggers email notifications when prices cross predefined percentage thresholds, enabling timely user insights.
- Designed and built a responsive UI for live stock visualization and user subscription to specific stock alerts.

TCP-Based Key-Value Database npm package

- Designed and implemented a lightweight TCP-based key-value database in TypeScript with JSON file persistence and custom protocol parsing over raw sockets.
- Packaged the project into an installable npm module `tcp-kvdb`, 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, Quasar Framework, Vue.js
Developer Tools: Docker, RabbitMQ, Sentry, CI/CD pipelines, Redis, CapacitorJS
Databases: PostgreSQL, MongoDB, MySQL, Firebase