

JOHN-DANIEL IKECHUKWU

Backend Engineer · Java / Spring Boot · Microservices · Distributed Systems

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SUMMARY

Backend engineer specializing in Java and Spring Boot microservices for financial systems. Built and shipped multi-tenant transaction processing, escrow, and automated reconciliation in production, cutting API failure rates by 60% through service redesign, TDD, and integration testing. Strong in concurrent programming, event-driven architecture, and RBAC security across PostgreSQL, Redis, and Kafka, with containerized delivery on Docker and Kubernetes.

TECHNICAL SKILLS

Languages: Java · Go · Python · TypeScript

Frameworks & APIs: Spring Boot · Spring Security · JPA/Hibernate · REST APIs · Microservices · Maven · Gradle

Core: Concurrent Programming · Multithreading · Distributed Systems · Event-Driven Architecture · Algorithms & Data Structures

Testing: JUnit · Mockito · Testcontainers · TDD · Integration Testing

Data & Messaging: PostgreSQL · Redis · MongoDB · MySQL · Kafka · RabbitMQ

Cloud & DevOps: AWS · Docker · Kubernetes · Linux · GitHub Actions · CI/CD

EXPERIENCE

Founding Backend Engineer — Chop n' Chop (Independent Product), Lagos | 2026 – Present

chopnchop.vercel.app — *high-concurrency multi-vendor commerce and fulfilment platform (Java · Spring Boot · Next.js · PostgreSQL)*

- Designed and implemented an event-driven financial ledger and settlement system using Spring transactional event listeners to split transactions, manage escrow, and track platform revenue.
- Built concurrency control with database-level locking and transactional inventory allocation, eliminating race conditions and overselling under load.
- Engineered multi-vendor order routing and batch processing across the full fulfilment lifecycle.
- Developed background scheduling workers for dynamic preparation lead-time cutoffs, order window closings, and assignment expiry routines.
- Built extensible scoring engines for dispatch allocation and vendor reliability tracking, backed by unit and integration tests (JUnit, Testcontainers).

Software Engineer — [Labs by Semicolon Africa](#) — Platform Team, Lagos | 2025 – 2026

[ClyraFi](#) — *multi-tenant Wallet-as-a-Service (Java · Spring Boot · PostgreSQL · Redis)*

- Architected a multi-tenant Spring Boot microservices platform handling secure transaction processing, automated reconciliation, and escrow workflows across 3 production tenants.
- Reduced API failure rates by 60% by redesigning distributed service boundaries, strengthening integration testing, and introducing Test-Driven Development across the team.
- Designed RBAC-based tenant isolation with Spring Security, eliminating cross-tenant data leakage across financial APIs.
- Built internal automation that generated frontend engineering tasks from design specifications, cutting coordination overhead and data storage cost by over 20%.
- Led system design across three platforms — [Meedl](#), [Enumverse](#), and Venture Marker; translating business requirements into technical architecture and phased delivery roadmaps.
- Mentored engineers through code review, architecture discussion, and knowledge sharing.

Backend & Hardware Integration Engineer — Semicolon Village — YabaTech, Lagos | Jan 2025 – Mar 2025

- Built a real-time RFID attendance platform integrating ESP32 devices with a Java backend, in a team of 4 engineers.
- Developed resilient event-processing pipelines with sub-100ms processing and complete audit trails.

SELECTED PROJECTS

- 2nd Place, Sui Hackathon — built smart contracts and Kubernetes-based node provisioning for a distributed network.
- Open source — [Vellar](#) (agent-payments infrastructure), [StellarProof](#) (verifiable records), [CraftNexus](#) (Soroban escrow marketplace) and [Stolla](#) (onchain community management).

EDUCATION & CERTIFICATIONS

B.Sc. Computer Science — University of the People | 2025

Diploma in Software Engineering — Semicolon Africa | 2024 – 2025

Diploma, Business Administration & Management — Henley Business School, UK | 2025

Certifications: Python Programming (WAVE/Digital Fortress) · Google Digital Marketing | 2023

Languages: English (fluent) · German (intermediate)