NASHON ERNEST

Backend leaning Full-Stack Software Engineer | Java, Spring Boot, React, TypeScript, SQL

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PROFESSIONAL SUMMARY

Software engineer with 4+ years of experience shipping production web applications and APIs for real clients. Strongest in Java and Spring Boot on the backend, paired with React and TypeScript on the front end. Has designed REST services, SQL databases and secure login (JWT, OAuth 2.0) for systems that handle real payments, so data accuracy and edge cases get attention from the start. Works in Agile/Scrum sprints with product owners, business analysts and QA, and can explain technical trade-offs to non-technical stakeholders. B.Sc. in Mathematics and Computer Science plus a Master's in Artificial Intelligence for Business. Kenyan citizen, needs U.S. visa sponsorship.

Key results: 15+ production systems delivered, 40% less manual processing time, 25% fewer support tickets.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, SQL, HTML5, CSS

Backend and APIs: Spring Boot, REST APIs, OpenAPI/Swagger, API Design, Microservices, GraphQL, gRPC, Node.js, Express, FastAPI, Django, ORMs (Python and Node)

Frontend: React.js, Next.js, React Native (Expo), Redux Toolkit, Zustand, React Context and Hooks, TanStack Query, Responsive and Accessible UI, Performance Optimization

Databases: PostgreSQL, MySQL, MongoDB, Redis, Data Modeling, Indexing, Schema Migrations, Transactions

Security: JWT, OAuth 2.0, RBAC, Session-Based Auth, Encryption at Rest and in Transit, Secrets Management, Secure Coding Practices

Architecture: Multi-Tenant Design, Idempotent Payment Handling, System Design, Caching Strategies

Testing and Quality: Jest, pytest, Unit Testing, Integration Testing, Automated Testing, Code Reviews, Coding Standards

DevOps and Cloud: Git, CI/CD, Docker, Kubernetes, AWS, Azure, Linux VPS, Northflank, Vercel, Supabase, Domains and SSL/TLS, Release Management, Infrastructure as Code

Monitoring: Sentry, Prometheus, Grafana, Loki, OpenTelemetry, Structured Logging, Health Checks

Integrations: M-Pesa, Stripe, SMS Gateways (SOAP), GPS Trackers, Receipt Printers, Weighing Scales, Third-Party REST APIs

Practices: OOP, Data Structures, SDLC, Agile/Scrum, Technical Documentation, Cross-Functional Collaboration, Mentoring

PROFESSIONAL EXPERIENCE

BizBora Hub Ltd. | Nairobi, Kenya — Jan 2026 to Present

Founder & Lead Full-Stack Software Engineer

- Operate BizBora, a multi-tenant cloud ERP (Next.js dashboard, React Native staff app) for 5 businesses across 8 store locations. Each business sees only its own data on shared infrastructure.
- Maintain KaziFlow, a B2B SaaS platform (Next.js frontend, FastAPI backend) that 8 businesses use daily for CRM, invoicing, payments, accounting and projects. Work ships in Agile/Scrum sprints.
- Ship React and Next.js interfaces with Redux Toolkit, Zustand and TanStack Query. Responsive, accessible layouts, memoization, code-splitting and lazy loading keep them fast, and the mobile apps keep working offline through local caching.
- Design REST APIs and PostgreSQL schemas with indexes, migrations, validation and transactions. Keep technical documentation current for handover.
- Integrated M-Pesa and Stripe from the checkout screen to backend settlement, plus automated email and reports. Payment callbacks are handled so a retried request cannot charge or record a customer twice.
- Implemented JWT, OAuth 2.0 and role-based access across web and mobile. Redis caching and tuned queries keep response times steady at 20 to 40 peak concurrent sessions across 13 onboarded businesses.
- Own the path from requirements to production support, with Docker containers and a Git-based CI/CD pipeline that deploys when the production branch changes. Configuration and secrets stay out of source code.
- Monitor production with Sentry and health dashboards and troubleshoot incidents. Adding Prometheus, Grafana, Loki and OpenTelemetry to a live FastAPI service for metrics, structured logs and request tracing.

Axesoft Ltd. | Nairobi, Kenya — Mar 2024 to Dec 2025

Founding Software Engineer

- Delivered 15+ production systems for external clients, including enterprise software, ERP platforms, REST APIs, web apps and mobile backends, working with product owners, business analysts and QA engineers in Agile/Scrum sprints.

- Built REST APIs and transactional services in Java and Spring Boot, with Node.js/Express services alongside them. Production React and React Native apps ran on top of these. Took part in code reviews and helped enforce coding standards.
- Wrote the business logic, endpoints, validation and exception handling for applications that handle real financial transactions, and connected them to third-party APIs with proper request handling and failure recovery.
- Modeled and optimized PostgreSQL and MongoDB data as transaction volumes grew. Set up JWT, OAuth 2.0 and session-based login with role-based access control.
- Deployed to Linux VPS servers, with domains, SSL/TLS certificates and production settings configured.
- Took each project from requirements analysis and system design through deployment and post-launch support. Diagnosed production problems across the API, application and database layers, from failed integrations to login errors and misconfigurations.
- Cut manual processing time by up to 40% by replacing paper and spreadsheet processes with API-driven digital workflows.

Digisoft Solution Limited | Nairobi, Kenya Oct 2023 to Jul 2024
Software Engineer

- Developed and maintained backend features for production web and mobile applications across the full software development lifecycle, and connected them to third-party APIs and to hardware such as GPS trackers, receipt printers and weighing scales.
- Redesigned error-prone workflows and added validation, error handling and unit and integration tests. Tracing problems across the API, application and database layers cut support tickets by 25% and made the data more reliable.

Real Biz Digital | Remote Oct 2022 to Jan 2023
Software Engineer Intern

- Contributed to 10+ web applications, mainly Node.js backend services and APIs, in Agile sprints.
- Wrote and tested backend features for production apps. Automated tests caught defects earlier and cut rework, which improved development efficiency by up to 30%.

CodeJika | Remote Aug 2022 to Dec 2023
Volunteer Code Coach

- Taught web development fundamentals to high-school students across Africa and mentored student-led coding clubs.

SELECTED PRODUCTION PROJECTS

KaziFlow | Production B2B SaaS
FastAPI, Next.js, React Native (Expo), PostgreSQL, Redis, Docker, Northflank, Sentry, Git-based CI/CD

- Built and operate the frontend and backend of a platform that 8 businesses use for CRM, invoicing, payments, accounting and project work.
- Structured the REST APIs as services with validation, Redis caching, exception handling and integrations such as M-Pesa and Stripe. Schema changes go out through controlled migrations, so deployments stay safe for live data.

BizBora Mini | Multi-Tenant Cloud ERP
Next.js, Express, MongoDB, React Native (Expo)

- Designed and built the backend for an ERP used by 5 businesses across 8 stores, with tenant-aware data access behind inventory, sales, procurement and accounting.
- Added low-stock alerts and reconciliation of recorded against physical inventory, plus an offline-capable Expo staff app for stores with poor connectivity. Deployed and maintained in production.

UremboApp | Salon Management Platform
Spring Boot, Next.js, React Native (Expo), PostgreSQL

- Launched a live salon platform for appointments, staff and customer management, used by 2 businesses.
- Created a shared multi-channel booking calendar with automatic staff allocation that prevents double bookings, and integrated an SMS gateway over SOAP for confirmations and reminders.

EDUCATION

ENEB, Escuela de Negocios Europea de Barcelona | Remote
MBA and Master in Artificial Intelligence for Business

Technical University of Mombasa
B.Sc. Mathematics (Applied Mathematics) and Computer Science