

JOHN KAMAU WAWERU

Senior Software Engineer | Full-Stack & Backend | Java · Spring Boot · Node.js · TypeScript

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PROFESSIONAL PROFILE

Senior Software Engineer with 7+ years of experience building and integrating production web and enterprise systems. Strong background in Java/Spring Boot, Node.js/Express, TypeScript, REST APIs and third-party integrations, with hands-on experience across frontend and backend development. Experienced in authentication and authorization, payment integrations, databases, caching and cloud-based deployments. Comfortable working across existing systems and services to deliver reliable solutions with security, performance and maintainability in mind.

TECHNICAL SKILLS

Backend & APIs: Java, Spring Boot, Node.js, Express, NestJS, PHP, Laravel, REST APIs, JSON, webhooks, API integration, service-to-service communication

Frontend: React, Next.js, Vue, Nuxt, TypeScript, JavaScript (ES6+), responsive web applications

Security: OAuth 2.0, JWT, RBAC, API security, authentication and authorization

Databases & Data: PostgreSQL, MySQL, MongoDB, Redis, query optimization, indexing, caching

Cloud & DevOps: AWS, Docker, CI/CD, GitHub Actions, Git, Bitbucket, containerized deployments

Testing & Tools: JUnit, Mockito, Jest, Cypress, Postman

Integrations: M-Pesa, payment APIs, third-party REST APIs, webhooks, external service integrations

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Nathan Digital — Nairobi, Kenya

Aug 2024 – Present

- Build and maintain enterprise integration features across multi-tenant ERP and HRMS platforms, from design and implementation through deployment and ongoing improvements.
- Develop Node.js, Express and TypeScript backend services and REST APIs that integrate with existing services in polyglot, microservice-based environments.
- Implement OAuth 2.0/JWT authentication and role-based access control (RBAC) for service-to-service and external-facing APIs.
- Improve API and database performance through query optimization, Redis caching and more efficient data-loading strategies.
- Work with security, infrastructure and business teams to turn business workflows into reliable and maintainable production systems.

Senior Software Developer

Smilenet Solutions Ltd — Nairobi, Kenya

Jul 2021 – Jul 2024

- Integrated third-party and payment APIs, including M-Pesa, into production enterprise applications with a focus on secure data exchange and transaction reliability.
- Designed and developed REST APIs with structured endpoints, input validation, error handling and API versioning.
- Built full-stack applications and integration services using Node.js, Express, TypeScript, React and PHP/Laravel.
- Designed backend services and data models using MySQL and MongoDB based on application and business requirements.
- Worked directly with clients and internal teams to deliver and support production systems across different business domains.

Software Developer

Upwork — Remote

Aug 2017 – Jul 2021

- Integrated third-party REST APIs for international clients across e-commerce, SaaS and enterprise applications.
- Implemented JWT and OAuth 2.0 authentication for secure API access and stateless application sessions.
- Developed full-stack web applications using Node.js, Express, React, TypeScript and PHP/Laravel.
- Built responsive interfaces and improved frontend performance through efficient rendering, asset optimization and caching.
- Worked independently with international clients to gather requirements, develop solutions and deliver production-ready applications.

EDUCATION

Bachelor of Science in Business Information Technology

Meru University of Science and Technology — Kenya

2012 – 2016

Second Class Honours, Upper Division

LANGUAGES

English: Fluent / Professional working proficiency

ADDITIONAL INFORMATION

Location: Nairobi, Kenya