

STEPHEN MAINA WAINAINA

Software Developer | Backend Specialist | IT Solutions Architect

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PROFESSIONAL SUMMARY

Dynamic Software Developer with 5+ years of experience specializing in backend development, microservices architecture, and enterprise system integrations. Proven expertise in Java/Spring Boot, PHP/Laravel, and building scalable, high-performance applications. Strong background in payment gateway integrations (M-Pesa, DPO), API development, and system optimization. Demonstrated ability to lead technical teams, mentor junior developers, and deliver complex solutions that enhance operational efficiency and user experience.

Core Competencies: Backend Development · Microservices Architecture · API Integration · Database Optimization · Team Leadership · System Architecture Design

TECHNICAL SKILLS

Programming Languages & Frameworks

- **Java:** Spring Boot, Spring Data JPA, Java Play Framework, Java 21
- **PHP:** Laravel, CodeIgniter, Livewire
- **Frontend:** Vue.js, React.js, HTML5, CSS3, JavaScript, Thymeleaf
- **Testing:** JUnit5, Mockito, PHPUnit

Database Systems

- MySQL, PostgreSQL, SQLite, Supabase, H2

System Integration & APIs

- RESTful API Development and Consumption
- Payment Gateways: M-Pesa C2B, Jambopay, DPO
- Third-party Services: SMS/Email providers

Development Tools & Technologies

- **IDEs:** IntelliJ IDEA Ultimate, PHPStorm, VS Code
- **Version Control:** Git, GitHub
- **Containerization:** Docker
- **Database Tools:** DBeaver, DataGrip, Mysql Workbench, PostgreSQL
- **Testing Tools:** Postman, Chrome DevTools

Architecture & Methodologies

- 3-Layer Software Architecture (Presentation, Business Logic, Data Access)
- Monolith to Microservices Migration
- Agile Development Practices
- Waterfall Development Practices

PROFESSIONAL EXPERIENCE

Backend Developer (Contract) | SGA Holdings Limited

March 2025 – Present

Key Responsibilities:

- Architect and develop microservices-based systems using Java 21, Spring Boot, and MySQL
- Lead system optimization initiatives, improving performance and reducing resource consumption
- Implement complex integrations with M-Pesa payment gateway and DPO
- Implement Finance systems integration: OMNI ERP with KRA through Total Solution APIs
- Collaborate with cross-functional teams to deliver scalable, enterprise-grade solutions
- Manage testing protocols and version control using Git/GitHub (Version Control)

Major Projects:

- **eTIMs Middleware:** This app acts as a bridge between the OMNI ERP finance system and the Total Solution (third party integrator) in the whole process of invoice generation and signing with KRA eTIMS systems (VSCU) and pushing it to KRA APIs. OMNI ERP does not support system to system integrations. The middleware gets all the new invoices as they are being generated and pushes them for signing and submitting to KRA eTIMS APIs. It generates reports and also sends alerts if an invoice is missing some fields and prevents its submissions. This facilitates easier tracking of invoices with issues in the shortest time possible on the finance team. The project is ongoing at the moment.

Techstack: Java 21, Springboot 4.1, JUNIT5, MySQL database

- **Enterprise Monoliths Platform:** Developed comprehensive in-house project suite including:
 - **Customer Relationship Management (CRM) System:** Built scalable CRM microservice handling customer data, interactions, and analytics
 - **Customer Portal:** Created self-service portal with React.js frontend and Spring Boot backend
 - **Admin Portal:** Developed administrative interface using Thymeleaf and Spring Boot for system management

- **Payment Integration Module:** Implemented M-Pesa C2B integration for seamless payment processing
- **Tax Compliance System:** Integrated KRA eTIMS for automated tax reporting and invoice management

Technical Stack: Java 21, Spring Boot, MySQL, Thymeleaf, React.js, Docker, JUnit5, GitHub, IntelliJ IDEA

Key Achievements:

- Improved system performance by 40% through microservices architecture implementation
- Successfully integrated multiple government and financial APIs with 99.9% uptime
- Reduced development time by 30% through reusable microservices components

Project URL:

<https://sgasecurity.com/home-security-solution/>

Full Stack Software Developer (Contract) | Uzapoint Limited

August 2024 – February 2025

Key Responsibilities:

- Led architectural transformation from monolithic to decoupled microservices system
- Optimized multi-tenant SaaS platform serving diverse business verticals
- Managed code review process and mentored team members on best practices
- Provided technical customer support and implemented client-specific customizations

Major Projects:

- **Uzapoint Point of Sale Suite:** Enhanced comprehensive POS system with CRM, HRM, and Payroll modules
- **System Architecture Migration:** Successfully decoupled monolithic system to Vue.js frontend and Laravel backend
- **Performance Optimization:** Streamlined reporting systems and database queries for improved efficiency

Technical Stack: PHP, Laravel, Vue.js, MySQL, PHPStorm

Key Achievements:

- Reduced system resource usage by 35% through architectural improvements
- Improved client satisfaction scores by 25% through enhanced customer support
- Successfully managed team of 4 developers in system migration

Project URL: <https://uzapoint.com/>

Software Developer | Deveint Limited

January 2023 – August 2024

Key Responsibilities:

- Developed and maintained backend services using PHP (Laravel, CodeIgniter) and MySQL
- Designed and implemented RESTful APIs for seamless system integration
- Provided comprehensive IT support for software and server-related issues
- Collaborated with frontend teams to optimize user experience and data exchange

Major Projects:

FedhaTrac Financial Management Platform (May 2023 – August 2023)

- Built comprehensive personal finance management system with budget tracking and investment modules
- Integrated external loan management system through custom APIs
- Implemented SMS/Email OTP systems and payment gateway integrations (M-Pesa, Jambopay)

Technical Stack: PHP, Laravel, Livewire MySQL

Project URL: <https://fedhatrac.com>

SokoFlow SAAS Platform (December 2022 – March 2023)

- Developed commodity trading automation platform serving multiple mobile applications
- Built order management, sales tracking, and reporting systems for B2B operations
- Created tailored solutions for clients including Sidai, Kenmeat, Hallmark, and others
- **Live Deployments:** sidai.sokoflow.com, hallmark.sokoflow.com, fresha.sokoflow.com

MojaPass Visitor Management System (January 2023 – March 2023)

- Developed cutting-edge digital visitor and resident management platform
- Implemented real-time data capture, registration, and verification systems
- Built security-focused identity management tools with fraud prevention capabilities
- **Technical Stack:** PHP, Laravel, Livewire, Tailwind CSS

Project URL: <https://amp.mojapass.com/>

Real Sources Africa Trading Platform (December 2023 – March 2024)

- Built comprehensive B2B trading platform facilitating African business transactions
- Implemented logistics, financial, and insurance management modules
- Developed partner management system including transport, insurance, and warehouse modules
- **Technical Stack:** PHP, Laravel, Livewire, Vue.js

Aagnet (Brandview) Marketing Platform *(February 2024 – June 2024)*

- Created marketing automation platform for Tanzania Commercial Bank partnership
- Built brand ambassador management and productivity tracking systems
- Implemented comprehensive reporting and analytics dashboard
- **Technical Stack:** PHP, Laravel, Livewire

Key Achievements:

- Successfully led 5+ major projects as technical lead with 100% on-time delivery
- Mentored 3 junior developers, improving team productivity by 20%
- Designed and implemented tailored solutions for 10+ diverse clients

Sokoflow Projects URLs: <https://sidai.sokoflow.com>, <https://ssea.sokoflow.com>, <https://brandcastle.sokoflow.com>, <http://fresha.sokoflow.com>

Junior Software Engineer (Management Trainee) | Velocis Technologies Kenya

January 2022 – June 2022

Key Responsibilities:

- Developed Java and Spring Boot backend systems for enterprise clients
- Created custom scripting solutions to meet specific client requirements
- Managed application deployment and monitoring on Oracle Cloud Services
- Performed system analysis, debugging, and issue resolution

Major Projects:

- **Online File Scanning Application:** Built web application using Spring Boot and YaRaify ClamAV APIs for malicious file detection
- **Technical Stack:** Java, Spring Boot, Spring Data JPA, Thymeleaf, SQLite

Key Achievements:

- Obtained Oracle OCI Foundations and AWS Cloud Foundations certifications
- Successfully deployed and managed multiple application instances in production
- Achieved 99.5% system uptime across monitored client application

Other projects worked on

<https://buyalot.africa>

<https://kiyovusports.rw>

<https://bianlina.com>

<https://ticketspride.com>

EDUCATION

Bachelor of Applied Computer Science (*Second Class - Upper Division*)

Chuka University | September 2017 – July 2022

Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Computer Networks, Computer Organization and Architecture, Advanced Database Systems, Design and Analysis of Algorithms, Web Applications Development

Kenya Certificate of Secondary Education

Molo Secondary School | March 2012 – December 2016

CERTIFICATIONS

- Oracle OCI Foundations Certified
 - Oracle Developer Certificate
 - AWS Cloud Foundations
 - CISCO Foundation to Cyber Security
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LANGUAGES


- **English:** Full Professional Proficiency
 - **Kiswahili:** Full Professional Proficiency
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INTERESTS

- Microservices Architecture & System Design
 - Cloud Computing & DevOps
 - Cybersecurity & Penetration Testing
 - Open Source Contribution
 - Beta Testing & Quality Assurance
 - Technology Research & Innovation
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REFERENCES



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