BRIAN MOKUA OYARO

Software Engineer | Java Backend Developer | Cybersecurity Analyst

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PROFESSIONAL SUMMARY

Agile Software Engineer & Cybersecurity Analyst with 2+ years of experience designing, developing, and securing scalable applications. Strong expertise in Java, Spring Boot, Python, JavaScript, React, Node.js, Docker, Kubernetes, and cybersecurity analysis.

Demonstrated results in improving system performance, strengthening security posture, and building modern full-stack solutions. Currently a Software Engineer at Bluewaves Plumbers, delivering secure, optimized solutions that increased company reach by 20% and boosted mobile retention by 25%.

PROFESSIONAL EXPERIENCE

Software Engineer, *Bluewaves Plumbers*   08/2025 – Present
                                                                                                                    Nairobi/Mombasa
Developed a modern web application using React & JavaScript, resulting in a 20%   (Remote + On-site)
increase in company reach.
Improved product engagement by 15% through development of new features and
UI/UX optimizations.
Implemented secure coding standards and application hardening, achieving zero
security incidents in production.
Optimized frontend and backend performance, reducing page load times by 0%.
Applied responsive design best practices, improving mobile user retention by 25%.

Software Developer Trainee, *Xcelsz*   03/2025 – 05/2025
Refactored legacy codebase, reducing technical debt by 30% and enhancing
maintainability.
Diagnosed and fixed critical production bugs, increasing system stability by 15%.
Implemented automated testing (unit + integration), reducing bug-related reports
by 50%.

Software Engineer Intern, *Digital Empowerment Network Pakistan*   08/2024 – 09/2024
Designed and optimized Node.js microservices, reducing API response times by
25%.
Containerized services using Docker and deployed them on Kubernetes, enabling
faster scaling and simplified deployment.
Achieved 99.9% system reliability via improved error handling, observability, and
monitoring tools.

EDUCATION

BSc. Mathematics & Computer Science, *Kenyatta University* ↗   08/2019 – 12/2023

KCSE – Katelembo Boys Secondary School   2015 – 2018

TECHNICAL SKILLS

Languages
Python, Java, JavaScript, C, HTML, CSS

Databases
MySQL, MongoDB, Redis, SQLite

DevOps & Cloud
Docker, Kubernetes, Nginx, Supervisor, CI/CD basics

Frameworks & Tools
Spring Boot, Spring Security, Flask, Django, Express.js, React, Tailwind CSS

Security & Cybersecurity
SOC Analysis, Threat Detection & Response, Network Security, Penetration Testing, OSINT, Secure Coding, API Security
Tools: Wazuh, Splunk, Nessus, Snort, Wireshark, OSSEC, Autopsy, Volatility

Other Competencies
Microservices Architecture, REST API Development, System Design, Debugging, Code Refactoring, Agile Development, Leadership & Mentoring

Certifications

Software Engineering, *ALX* ⬀   2023 – 2024

Cybersecurity Analysis, *Cybershujaa*   2024

FEATURED PROJECTS

My-Startup, *(Java / Spring Boot)*
Authentication-enabled Spring Boot application with REST APIs, role-based security, and MySQL persistence.
 JWT Auth | RBAC | Spring Security | Dockerized

Timamu v2 – Telepsychology Platform
A secure telemedicine platform supporting HIPAA-compliant communication.
 Real-time video (WebRTC + LiveKit)
 Appointment booking
 Encrypted communication
Tech: Flask, React, WebRTC

E-Vote System, *(Secure Online Voting)*
 End-to-end encryption
 Advanced authentication
 Real-time result streaming
 Audit trail
Tech: Flask, Redis, MongoDB, Cryptography

Security-Focused API Infrastructure
Security monitoring system with automated threat detection across microservices.
 25% faster threat detection
 99.9% uptime
 Automated incident response
Tech: Node.js, Docker, Kubernetes, Wazuh

Property Connect, *(Real Estate Platform)*
Secure full-stack application implementing strong authentication & access control.
Tech: Express.js, MongoDB, JWT, React

Maji App, *(Water Vendor Platform)*
Secure production deployment using Nginx + Supervisor + Python backend.
 Real-time monitoring
 Optimized APIs

CYBERSECURITY EXPERTISE

SOC Analysis & Threat Hunting
Log analysis, alert triage, correlation, threat detection.

Penetration Testing
Vulnerability scanning, exploit simulation, remediation strategy.

Network Security
Firewall rules, packet analysis, SIEM monitoring, incident response.

Digital Forensics
Memory forensics, OSINT, malware analysis (Volatility, Autopsy).

References

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