BRIAN MOKUA OYARO

Software Engineer

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PROFESSIONAL SUMMARY

Self-driven **Software Developer** with **3+ years' experience** designing, developing, testing, deploying, and supporting secure, scalable software systems in **mission-critical environments**. Strong background in **SDLC**, enterprise application development, API integration, relational databases, and system support. Experienced in collaborating with cross-functional teams to translate business and regulatory requirements into reliable technical solutions. Proven ability to work under pressure, maintain system availability, and deliver well-documented, compliant software solutions

PROFESSIONAL EXPERIENCE

Software Developer   11/2025
                                                                                                  Mombasa, Kenya
- Revamped the NCTTCA website to enhance performance, usability, and reliability.
- Collaborated with ICT and other departments to translate business requirements into technical solutions.
- Developed, tested, and deployed web application features using SDLC best practices.
- Integrated systems with databases, APIs, and third-party platforms.
- Applied secure coding standards and supported production troubleshooting.
- Maintained technical documentation and version-controlled codebases.

Software Engineer, *Bluewaves Plumbers*   08/2025 – 11/2025
- Developed a modern web application using React & JavaScript, resulting in a 20% 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 40%.Applied responsive design best practices, improving mobile user retention by 25%.

Software Developer Trainee, *Xcelsz*   03/2025 – 05/2025
- Refactored legacy systems to improve maintainability and performance.
- Diagnosed and resolved production bugs in live systems.
- Implemented **automated unit and integration tests**, reducing recurring issues.
- Supported version control and collaborative development workflows.

Software Engineer Intern, *Digital Empowerment Network*   08/2024 – 09/2024
- Designed and optimized backend services using **Node.js microservices**.
- Integrated APIs and improved response times by 25%.
- Containerized applications using **Docker** and supported cloud deployments.
- Enhanced system monitoring, achieving **99.9% availability**.

EDUCATION

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

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

Bernard Chunga, *CEO,* Bluewaves Plumbing
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