

Nairobi, Kenya
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Michael Otieno

Full Stack Engineer

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Technical Skills

- **Languages:** Java, Python, JavaScript, TypeScript, Dart, SQL
- **Frameworks:** Spring Boot, React, NextJS, Flutter, Django, Bloc, Redux, Tailwind CSS
- **AI & Data:** RAG (Retrieval-Augmented Generation), Agentic Memory, n8n Workflows, Data Pipelines.
- **Cloud & DevOps:** AWS, Google Cloud Platform (GCP), Docker, GitHub Actions, CI/CD pipelines
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Source Control:** Git, Github, GitLab, BitBucket
- **Other:** REST APIs, OAuth2/JWT, Bloc, Redux, Tailwind, Flyway, Websockets and Performance Optimization

Work Experience

Full Stack Engineer	Creative Bits AI Nairobi, Kenya	October 2025 – Present
	<ul style="list-style-type: none">Engineered AI-driven workflow automations using n8n and RAG pipelines, translating complex expert domain knowledge into agentic memory systems that reduced manual client tasks.Architected scalable full-stack features (Backend to Frontend), leading technical design discussions that standardized API contracts and improved cross-team development velocity.Accelerated deployment cycles and minimized production bugs by enforcing strict code quality standards and conducting rigorous peer code reviews for the frontend team.Customized system localization logic to handle region-specific requirements (US formats, locale-specific languages), ensuring seamless adoption for international enterprise clients.	
Full Stack Developer	SmartSpot Solutions Nairobi, Kenya	May 2024 – September 2025
StockPoint (POS for SMEs)		
	<ul style="list-style-type: none">Built a high-availability microservices backend using Spring Boot and managed PostgreSQL on GCP, ensuring 99.9% uptime for high-traffic retail transactions.Developed a performant, mobile-first frontend using Flutter and Bloc, implementing rate limiting and payload compression to stabilize response times under load.Expanded user base by +60% by implementing granular Role-Based Access Control (RBAC) and internationalization (i18n) for diverse market segments.Achieved 80%+ code coverage by integrating JaCoCo into the build pipeline, preventing regression bugs prior to release.	
Karria App (Transport & Logistics)		
	<ul style="list-style-type: none">Deployed a robust logistics platform on AWS EC2 with Spring Boot and PostgreSQL RDS, creating a scalable architecture for real-time delivery tracking.Secured API endpoints for Android and Web clients using OAuth2 and JWT, simplifying session management while adhering to industry security standards.slashed release overhead by 50% and optimized API performance by 30% through the implementation of automated GitHub Actions CI/CD pipelines.Integrated Paystack and mobile wallet gateways, streamlining the payment flow and significantly increasing transaction success rates for wallet deposits.	

Software Developer

BitBridge

Oct 2023 – Apr 2024

Kakamega, Kenya

- Designed and developed the company's primary web platform, translating brand objectives into a responsive, high-performance UI.
- Spearheaded community technical initiatives, fostering niche interest groups focused on **Blockchain** technology and decentralized systems.

Software Developer Intern

Numerical Machining Complex Ltd.

May – Aug 2023

Nairobi, Kenya

- Developed an automated Leave Management System using Python and Django, replacing legacy paper workflows and reducing processing time by 80%.
- Engineered custom internal tools based on HR requirements, ensuring seamless integration with existing operational workflows.

Projects

- Cloud Storage Picker** – Built a **TypeScript** library abstracting API complexity for Google Drive, Dropbox, and OneDrive, allowing developers to integrate multiple storage providers via a single interface.
- Arena** – Contributed to a real-time game server using Java and SQLite, establishing core security protocols and writing unit tests to validate database interactions.

Education

BSc. Computer Science, Masinde Muliro University of Science and Technology, Kakamega