

Charles Mbillo

DevOps-aware Full-Stack Developer | Certified Cloud Practitioner | IT Consultant

mbillocharles@gmail.com (254) 111-810-434 Nairobi, KENYA in/charles-mbillo

Professional Summary

DevOps-Aware Full-Stack Developer | AWS Certified Cloud Practitioner

Experienced in designing, building, and deploying scalable web, mobile, and cloud solutions for emerging markets. Combines 3+ years of Full-Stack expertise (Front-end to infrastructure) with a focus on performance, security, and cost-efficiency. Passionate about impact-driven technology, delivering accessible, client-focused solutions that maximize resources and drive measurable outcomes.

Robotics, Automation & AI/ML

"From LEGO Mindstorms prototypes to hardened Jetson Nano/Raspberry Pi/Arduino deployments using Edge Impulse-optimized TinyML models. My passionate focus is on real-life solutions like solar-powered edge devices running TensorFlow Lite Micro for agricultural vision systems and predictive maintenance—proving that micro-scale AI can drive macro-level impact even in low-connectivity environments. The Integrated Coding and Robotics Program (ICRPplus) with BLIS Global, we're manufacturing Africa's IoT workforce through brutal pragmatism. CBC-aligned labs deliver 80% hands-on training on the exact systems powering Africa's digital economy. This isn't education - it's industrial-grade skills injection."

Professional Experience

Education

Certified Cloud Practitioner, AWS Re/Start AWS - AjiraEmobilis https://bit.ly/3XK5hz	09/2024 - 12/2024 Nairobi, Kenya
Software Development , Software Engineering PLP ACADEMY https://powerlearnprojectafrica.org/	02/2023 - 12/2023 Nairobi, Kenya
Information Technology , Information Technology (Diploma) Government Training Institute (G.T.I.)-EMBU	05/2006 - 08/2008 Embu, Kenya
Robotics , Robotics Blis Global	03/2025 - Jan 2026 Nairobi, Kenya
Multi-disciplinary approach: Mechanical, Electrical, Electronics Applied Mathematics, Computer Science and AI to Design and develop both human-like and industrial robots. Supply energy to robots for intended movements. Programming robots, robotics design, prototype manufacturing and simulation. LEGO, Arduino, Raspberry Pi, Sensors, I.o.T. & AI	
, Product Management BeTechified	04/2025 - Jan 2026 Nairobi

Skills

Programming Languages

Python R JavaScript TypeScript

Frontend Development

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React Angular Vue.js Next.js Responsive Design Web Accessibility (axe)
JavaScript Testing Frameworks (mocha) HTML/CSS Tailwind CSS

Backend Development

Node.js Django/Flask RESTful API Design Microservices Architecture Database Design GraphQL MongoDB
PostgreSQL

DevOps

CI/CD Pipelines (Github Actions) Containerization (Docker, Kubbernetes)) Infrastructure as Code (Terraform)
Cloud Platforms (AWS/Openstack) Monitoring and Logging Linux Administration Scripting (bash, jason, yaml)

Databases & Data Analysis

mySQL NoSQL(dynamoDB) Database Optimization Data Modeling MongoDB(hybrid) Postgresql(hybrid)
Supabase Excel Power BI KoboCollect/ODK

Software Engineering Practices

Agile/Scrum Test Driven Development Version Control Code Review Design Patterns ITIL

Soft Skills/Other

Communication Problem Collaboration Time Management Analytical Skills Adaptability Security best practices

Tools

Git Docker