

# EMMANUEL MADUABUCHI

## Full-Stack Systems Developer/ Systems Architect (High-Reliability Platforms)

Lagos / Abuja, Nigeria

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GitHub: <https://github.com/lightwayz>

Production repositories are private (IP). Guided walkthrough / temporary read-only access available.

## PROFESSIONAL SUMMARY

Full-Stack Systems Developer with 7+ years building and owning high-reliability platforms across fintech, mobility, and healthcare-adjacent domains. I design failure-aware systems that are safe, observable, and auditable, where downtime, silent errors, or security gaps directly impact revenue, operations, and trust. My approach is rooted in systems thinking, informed by a physics background and hands-on production leadership.

## CORE STRENGTHS

- High-Reliability & Failure-Aware System Design
- Secure Full-Stack Architecture (Web & Mobile)
- Role-Based Access Control & Identity Systems
- Payment, Billing & Notification Pipelines
- Observability, Logging & Error Escalation
- API-First & Integration-Heavy Platforms
- AI-Ready, Human-Centric System Design

## TECHNOLOGY STACK

Frontend: React, Next.js, Flutter

Backend: Node.js, TypeScript (NestJS-style modular architecture), Firebase, REST APIs, Python (AI / Automation)

Infrastructure: Serverless Architecture, Vercel, Cloud Functions

Security: Auth Guards, RBAC, Secure Routing

Integrations: Paystack, Termii (SMS/WhatsApp), External APIs

AI Exposure: Model integration, responsible AI workflow design

## PROFESSIONAL EXPERIENCE

**CTO / Full-Stack Engineer EnergyWallet Services Limited (Remote)**

**October 2023 - Present**

- Technical owner of a high-availability transaction and identity platform
- Designed and implemented secure payment workflows with verification, retries, and audit logging
- Built role-segregated admin dashboards with full traceability
- Introduced system-level logging to eliminate silent failures in production
- Led architectural decisions balancing speed, security, and long-term maintainability

### **Full-Stack Developer - Mrock Entertainment / ATHF, Kigali (Hybrid)**

**October 2021 - September 2023**

- Designed backend services using modular Node.js/TypeScript architecture aligned with NestJS patterns (controllers, services, guards, dependency injection)
- Developed and maintained full-stack applications supporting media and event operations
- Built admin and user-facing systems with clear access separation
- Integrated third-party services and external APIs
- Collaborated closely with non-technical stakeholders

### **Fleet Analyst - Dangote Group Plc**

**June 2015 - September 2021**

- Analyzed large-scale fleet and logistics operations
- Supported executive decision-making through performance insights
- Developed strong operational discipline in mission-critical environments

## **EDUCATION**

Bachelor of Science (B.Sc.) Physics  
Ambrose Alli University, Ekpoma, Nigeria  
February 2009 – April 2013

## **CERTIFICATIONS**

- Certified AI Scientist USAII (2025)
- Google Cybersecurity Certificate (2023)
- CompTIA Security+ Bootcamp (2023)
- IBM DevOps & Software Engineering (2022)
- Google IT Support Certificate (2022)
- DevOps Engineer - International DevOps Certification Academy (2022)

## **Reference**

Available on request.