

LEWIS MUTEMBEI

Senior Full-Stack Developer | Business Systems Architect

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🌐 <https://lewis-codes.vercel.app>

💻 <https://github.com/lewietesh>

📍 Nairobi, Kenya

PROFESSIONAL SUMMARY

Senior Full-Stack Developer with relevant experience in converting business problems to technical solutions. More than 5 years of development and management of 8+ production systems with tangible business results. It includes e-commerce platforms that facilitate real-time transaction processing, analytics, and clinical management and reporting with actionable insights to make strategic decisions.

Unique value: I have both the technical abilities and business knowledge to develop solutions that work, not just technically, but in a manner that allows businesses to operate better, and in measurable ways. I specialize in web-based process automation, API integration, data analytics, and the development of platforms that help businesses run more efficiently, increase their impact, and remain reliable.

Core expertise: Full-stack architecture, business process automation, API services integration for third party apps, data analytics, and end-to-end solution delivery with a focus on measurable business impact.

TECHNICAL EXPERTISE

Languages & Frameworks: Python, JavaScript/TypeScript, React.js, Next.js, Django, Flutter

Databases: PostgreSQL, MySQL, MongoDB, Redis

Integration: M-Pesa STK/C2B, Stripe, REST APIs, OAuth, JWT

DevOps: Docker, CI/CD, GitHub Actions, AWS, VPS management

Data Science: Pandas, NumPy, Streamlit, statistical analysis, ETL workflows

Business Systems: Payment processing, healthcare compliance, inventory management, analytics dashboards

KEY PROJECTS

Modern E-commerce Platform | *poshabodes.co.ke*

Tech: Next.js, TypeScript, Django REST, PostgreSQL | **Impact:** Active revenue-generating store

- Architected full-stack e-commerce solution with modern TypeScript frontend and Django REST backend
- Built a comprehensive business intelligence system tracking sales, inventory optimization, and customer analytics
- Integrated secure multi-payment processing (Stripe, M-Pesa) with automated order fulfillment
- Created a real-time administrative dashboard for business metrics, revenue analysis, and performance monitoring
- **Result:** Complete online business platform driving actual sales with advanced analytics and payment integration

Publishing & Content Platform | *numenofbanda.com*

Tech: Next.js, MongoDB, Docker, CI/CD | **Impact:** Live content delivery with automated infrastructure

- Built a scalable content management platform with MongoDB for flexible content structure and reader engagement
- Implemented a complete DevOps pipeline with Docker containerization and GitHub Actions for zero-downtime deployments
- Architected high-performance VPS hosting with automated monitoring, backup systems, and advanced caching
- Optimized for content delivery with sophisticated performance tuning, achieving 85+ Lighthouse scores
- **Result:** Professional publishing platform with enterprise-level infrastructure automation

Mobile Money E-commerce | *cartlite.co.ke*

Tech: Django, M-Pesa Integration | **Impact:** Processing live transactions

- Implemented sophisticated M-Pesa payment flows, including STK Push and C2B transactions
- Built automated payment reconciliation and a comprehensive order management system
- Designed a mobile-first approach optimized for the Kenyan market requirements
- **Result:** Successfully processing thousands of mobile money transactions

Healthcare Management Platform | *ibnusina.co.ke*

Tech: Next.js, PostgreSQL, RBAC | **Impact:** Comprehensive business system

- Built a full-stack platform handling patient records, pharmacy inventory, and multi-payment billing
- Implemented healthcare data compliance protocols with role-based access control
- Created operational dashboard for clinical metrics and automated financial reporting
- **Result:** Complete healthcare business management system demonstrating regulatory compliance expertise

Data Analytics Platform | *health-guard-project.streamlit.app*

Tech: Python, Streamlit, Advanced Analytics | **Impact:** Live analytical application

- Architected a platform for processing large-scale datasets with interactive visualizations and statistical analysis
- Implemented sophisticated data science workflows for trend identification and predictive insights
- Built an intuitive interface enabling non-technical professionals to leverage complex analytical capabilities
- **Result:** Demonstrates advanced data engineering and analytics expertise with real-world application

PROFESSIONAL EXPERIENCE

Senior Systems Developer & Technical Consultant | 2023 - Present

Managing Multiple Production Business Systems

- Architect and maintain 8+ live business-critical systems across publishing, e-commerce, and healthcare.

- Provide strategic technical consultation to healthcare providers, e-commerce businesses, and startups
- Design scalable architectures, security frameworks, and deployment strategies for enterprise applications
- Build data analytics pipelines and business intelligence systems, driving operational insights
- **Achievement:** 99.9%+ uptime across all managed platforms through proactive monitoring and optimization

Software Implementation Specialist | *Total Solution Limited* | *June 2022 - Dec 2022*

- Led eTIMS (Electronic Tax Invoice Management) implementation across 60+ Kenyan businesses
- Trained business stakeholders on tax compliance workflows and government system integration
- Streamlined data validation and integration processes, ensuring KRA compliance requirements
- **Achievement:** Successfully implemented the ETR tax systems software to 70+ client businesses, reducing compliance overhead during tax remittance.

Mobile Application Developer | *Sortika* | *April 2022 - May 2022*

- Built production savings module UI for fintech mobile application using Flutter
- Collaborated on backend integration and business logic for live financial platform
- Contributed to user behavior analysis using machine learning for product optimization
- **Achievement:** Delivered production-ready mobile features serving an active user base

IT Department Intern | *State Law Office* | *June 2021 - Sep 2021*

- IT Infrastructure support ranging from software installations, support, and maintenance across 100+ government users.
- Assisting senior IT administrators at the department in enforcing internal security protocols, domain management, and access control for sensitive operations.
- Network printers and intra-network ongoing service maintenance.
- User data management and support services to organizational staff at the department.
- **Achievement:** Maintained critical government IT systems, ensuring operational continuity

ADDITIONAL PROJECTS & ACHIEVEMENTS

Corporate Digital Transformation: Led development for Aquasan Technologies, Domfin Consultancy, and buildingminds.co (currently with 200+ user waitlist pre-launch)

Performance Excellence: Consistently achieve 85+ Lighthouse scores through advanced optimization techniques

Payment Systems Expertise: Successfully integrated and processed transactions through M-Pesa and Stripe, serving both local and international markets

Data Analytics: Built a health analytics platform processing large datasets for actionable business insights

System Reliability: Maintained enterprise-level uptime and performance across diverse industry sectors

EDUCATION & CERTIFICATIONS

Bachelor of Science in Software Development | *KCA University*

CISCO Certified Network Associate (CCNA) | *Network Infrastructure & Security*

Professional Development: Advanced React Patterns (2024), Machine Learning Engineering (2023), Cloud Architecture & Microservices (2023), Python Programming - E-mobilis Institute

LANGUAGES & COMMUNITY

Languages: English (Professional), Swahili (Native)

Community: Active contributor to Dev.to Reddit tech communities, Nairobi tech meetups, and X.

Interests: Enterprise architecture, data science research, fintech innovation

REFERENCES

Alex Maina | *Technical Lead, Total Solutions Limited*

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