Daniel Edward Mwihoti

Full-Stack Software Engineer · Blockchain & AI Automation

Nairobi, Kenya (UTC+3) · open to remote roles and freelance work danielmwihoti@gmail.com danieled-portfolio.vercel.app
github.com/mwihoti linkedin.com/in/daniel-mwihoti

PROFILE

I build web products from first idea to live launch, and I specialise in blockchain (Bitcoin, Cardano, Avalanche), full-stack development and AI automation. In 3+ years I have shipped more than 20 products and had my code reviewed and merged into open-source Bitcoin and Cardano projects. I'm open to building innovative products with companies, startups and institutions. I see my work through thoroughly to completion, and I'm always learning new things.

HOW I CAN HELP YOUR TEAM

- **Build a product end to end.** Website or web app, the server behind it, the database and the launch.
- **Make records tamper-proof.** Certificates, credentials and transactions that anyone can verify on a blockchain.
- **Strengthen an existing team.** I work well in code others wrote; open-source maintainers merge my work.
- **Add AI that saves staff time.** Chatbots, document search and assistants for routine tasks.
- **Take payments.** M-Pesa, Stripe, PayPal or crypto, connected to your site or app.
- **Explain and support.** Technical help at community events, teaching tools and clear written guides.

SELECTED WORK

Certified Chain — lets institutions issue certificates that cannot be forged and that employers can verify in seconds. Built on Cardano. certified-chain.vercel.app

OmniCaption AI — turns one video into captions, descriptions for blind users and ready-to-post social content, using 13 cooperating AI agents. AMD Developer Hackathon. omnicaptionai.fly.dev

StackMate — marketplace where founders find technical partners; every partnership is recorded on Bitcoin's Stacks network so reputations can be checked. stack-mate.vercel.app

Open Wallet Standard — lets AI agents make payments across 9 blockchain networks without ever holding the secret keys. open-wallet-standard.onrender.com

Bitcoin Wallet Lab — teaching tool that shows, step by step, how a Bitcoin payment works. Core cryptography written from scratch in Rust. wallet-lab.onrender.com

EXPERIENCE

Full-Stack Developer · Freelance, remote — 2024 – Present

- Built and shipped 20+ products: web apps, blockchain applications, Telegram bots and AI automation tools.
- Handle the whole job: requirements, design, build, testing and deployment.

Blockchain Ambassador · Blockchain Centre NBO, Nairobi — Oct 2025 – Present

- Build Cardano applications and developer tools, and research blockchain platforms for the centre's technical programmes.
- Represent the centre at events such as the Cardano Africa Tech Summit, and give technical support to the community.

Earlier: Data Analyst & Engineer, FaithTech (2025) · Backend Developer Intern, HNG (2024) · Full-Stack Developer, KejaSpace (2024) · Business Systems Administrator Intern, Kenya Tea Development Agency (2023)

OPEN SOURCE & COMMUNITY

Merged contributions: Payjoin (rust-payjoin), IntersectMBO lsm-tree (Cardano's database library, PR #818), Cardano Foundation (cardano-org). Also contributed to rust-bitcoin and the Stacks explorer.

Community: Team1 Africa Collaborator (Avalanche), since Jul 2026 · Warnet Bitcoin Lightning security contest, Feb 2026 · Top 10, StackUp Hackathon, Aug 2024 · Author of the guide "How to Use Claude Code for Free"

SKILLS

Programming: TypeScript, JavaScript, Python, Rust, SQL, Solidity; working knowledge of Haskell and Cairo

Web: React, Next.js, Tailwind CSS, Node.js, Express, NestJS, PostgreSQL, MongoDB, Redis

Blockchain: Bitcoin & Lightning, Cardano (Plutus, Aiken, Mesh SDK), Stacks (Clarity), Starknet, Ethereum/EVM, Solana

AI & delivery: LLM integration, RAG, AI agents, computer vision (YOLO, OpenCV) · Docker, Linux, Git, CI/CD, Vercel, GCP

EDUCATION & CERTIFICATES

BSc Business Information Technology, KCA University, Nairobi, 2020 – 2024

Software Engineering Programme, ALX Africa, 2023 – 2024 · **Bitcoin development tracks**, Bitcoin Dojo, 2025 – 2026

Certificates: AI Fluency: Framework & Foundations; Claude 101 (Anthropic, 2026) · **Languages:** English, Swahili