

MARK M. MUTHII

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Skills, Tools and Languages

- React | NextJS | TypeScript | Tailwind | NodeJS | Express | MySQL | MongoDB | PHP | Laravel
- OOP | MVC | Rest APIs | GraphQL | Microservices
- Git | Linux | Jenkins | Docker | Kubernetes | Digital Ocean | AWS | GCP | Vercel
- Adobe Illustrator | Adobe Photoshop | Adobe XD | Figma
- English | Swahili | German

Experience

Software Engineer - Frontend ([Omnivoltaic Energy Solutions](#))

07/2025 - Present

- Built a fleet management, IoT device monitoring and asset administration platform using Next.js 15, React 19, TypeScript, and GraphQL.
- Developed real-time IoT device monitoring with Leaflet mapping, GPS tracking, historical route analysis with road-following visualization, and interactive dashboards using Chart.js for fleet health metrics and analytics.
- Optimized performance by implementing progressive data loading, module-level caching, and efficient GraphQL query patterns, reducing initial load times by 50%+ for large datasets and improving data consistency.
- Designed and implemented a scalable multi-module architecture including account management, staff administration, event tracking, e-commerce, and support systems, with Docker containerization and JWT-based authentication.

Software Dev Bootcamp Instructor ([GOMYCODE Kenya](#))

04/2024 - Present

- Mentored 70+ students through a full stack software development course covering HTML, CSS, Tailwind, JavaScript, TypeScript, React, NextJS, NodeJS, MongoDB.
- Led live, online Masterclasses with hundreds of attendees on software development topics (React, HTML & CSS, JavaScript).
- Organized 30+ tech events (workshops, hackathons) that had an average 70% lead conversion rate.

Founder, Network Engineer ([Nitram Networks](#))

11/2022 - Present

- Founded and operate a small Internet Service Provider, delivering broadband connectivity to residential and small business customers.
- Designed, configured, and maintained network infrastructure, including routers, switches, and Ethernet cabling.
- Implemented IP addressing, bandwidth management, and network security controls to ensure reliable and fair service delivery.
- Performed end-to-end customer support, including installations, troubleshooting, and service provisioning.
- Managed business operations alongside technical delivery, including marketing, customer acquisition, billing, and service planning.

Founder, Software Engineer (Kram Digital Agencies)

12/2020 - Present

- Developed websites and systems for clients from around the world using NodeJS, PHP and their respective ecosystems (MERN, MEAN, LAMP stacks).
- Integrated Mpesa and Crypto Currency APIs through which over \$1,000,000 in inbound and outbound transactions has been processed cumulatively across the different systems.
- Managed CentOS VPS servers, supporting traffic from a peak of over 33,000 **users** from across the globe with **minimal (<0.5%) downtime**.

Head of Technology (Tehy Care Group)

01/2017 – 08/2021

- Designed, developed and managed a WordPress website for the UK-based home care company.
- Developed internal tools for the company using PHP and Angular.
- Setup and managed the online technology infrastructure.

Head of Operations and IT (The Consulting Academy Nairobi)

09/2017 – 06/2018

- As a founding director of TCAN, I was responsible for setting up the company IT infrastructure.
- Developed an internal accounting system for the company.
- Provided operational support to the other departments.

Education

Higher Education (Strathmore University)

09/2017 – 04/2019

- Diploma in Business Information Technology.
- Relevant Courses: Databases, OOP, Systems Analysis and Design, Data Structures and Algorithms, Web Development, Networking.

Secondary Education (Starehe Boys' Centre and School)

01/2012 – 11/2015

- Kenya Certificate of Secondary Education. Mean grade: A-, 75/84 points.
- Activities and Societies: The Prefectorial Force, German Club, Scouts, President's Award, Choir.