

CAROLINE MUTEMI

Software Developer



+254 795 052 260 | cmutemi27@gmail.com | Kenya

PROFESSIONAL SUMMARY

Versatile and detail-oriented **Software Developer** with extensive experience building full-stack applications, backend services, and intelligent automation tools. Proven ability to design scalable architectures, implement optimized APIs, integrate AI-driven capabilities, and deliver complex systems used across real estate, insurance, and enterprise environments. Strong foundation in modern web technologies including **Next.js**, **React**, **TypeScript**, **Node.js**, **Express**, **SQL**, **MongoDB**, and cloud-based workflows. Recognized for technical problem-solving, fast learning, reliability, and ability to collaborate effectively in high-pressure environments.

CORE SKILLS

Software Development

- **Frontend:** Next.js, React.js, TypeScript, JavaScript, Tailwind CSS, shadcn UI
- **Backend:** Node.js, Express.js, Python, Flask, SQL, REST APIs, PDFKit
- **Databases:** MongoDB, PostgreSQL, MySQL, JSON Server, Qdrant (Vector DB)
- **Dev Tools:** Git, GitHub, Docker, Postman, Linux CLI
- **Architecture:** MVC, modular design, relational modeling, caching strategies, API versioning

AI, Data & Automation

- OpenAI chatbot integration, embeddings, vector search
- Data pipelines, dataset structuring, annotation QA
- SQL query optimization, indexing, schema design

Soft Skills

Analytical thinking, teamwork, communication, documentation, problem-solving, adaptability

EXPERIENCE

Software Developer — Labedan IT Solutions

June 2025 – Present | Tanzania (Remote + On-Site Collaboration)

- Develop enterprise-grade full-stack systems using **Next.js, TypeScript, Node.js, Express, MongoDB**, and modular API architectures.
- Build complex modules for property management, inspections, workflows, and insurance document automation.
- Architect backend logic including authentication systems, authorization flows, validation layers, dynamic routing, role-based logic, and indexing strategies.
- Implement multi-level approval workflows, cron-based reminders, and automated task transitions used across real estate and insurance operations.
- Create dynamic form systems using **Zod schema generation**, handling inspector roles, structured inputs, and image uploads.
- Build **pixel-perfect PDF engines** (Tax Invoices, Receipts, Cover Notes, LPOs) using PDFKit with advanced layout rendering and dynamic content.
- Integrate AI-powered systems using OpenAI embeddings, Qdrant vector search, and conversational modules.
- Develop shared UI libraries, reusable hooks, and shadcn UI components to streamline frontend development.
- Support junior developers, conduct code reviews, improve documentation, and contribute to architectural decisions.

Backend Developer — Enlabeler (Remote)

April 2024 – August 2024

- Developed backend automation pipelines supporting large-scale AI/ML training datasets.
- Built Python/Node.js scripts for data ingestion, transformation, validation, and annotation management.
- Designed REST APIs for routing tasks, managing metadata, and structuring datasets.
- Created SQL and NoSQL queries for analysis, QA, and dataset preparation.

- Collaborated with engineering + linguistics teams to refine requirements and ensure data integrity.

Software Developer — NexaTech Digital Solutions (Contract)

January 2024 – March 2024 | Remote / Nairobi, Kenya

- Built and maintained full-stack applications using **React, Next.js, Node.js, SQL, and MongoDB** for enterprise clients.
- Designed optimized **REST APIs**, relational schemas, SQL queries, stored procedures, and indexing strategies.
- Led workflow automation projects including approvals, notifications, document handling, and system reports.
- Created analytics dashboards with interactive charts and dynamic filtering.
- Developed cron jobs and automated scripts for reminders, email triggers, and data cleanup.
- Integrated payment gateways, SMS APIs, email services, and cloud storage.
- Authored comprehensive technical documentation and API references.

PROJECTS

Eventify – Event Management System

React + Python/Flask | Scheduling, budgeting, guest lists

Demo: <https://event-project-rgv7.vercel.app/>

FitClub – Gym Management Platform

React.js + Node.js | Workout plans, diet tracking, dashboards

Demo: <https://fitclub-1my.pages.dev/>

Cine Reserve – Movie Browsing Platform

Search, filtering, API integrations, responsive UI

Demo: <https://movie-site-khaki-six.vercel.app/>

Pik-Cha – Image Editing & Generation App

Canvas editing, export tools, authentication

Demo: <https://pik-cha.onrender.com/>

Ambulance App – Emergency Dispatch System

Real-time dispatching, location services, role-based access

Demo: <https://ambulance-app-b741.onrender.com/>

EDUCATION

Moringa School — Diploma in Computer Science & Software Engineering

Graduated: July 2025

Garissa University — Bachelor of Education

2024

CERTIFICATIONS

- ALX Africa — AI Career Essentials
 - ALX Africa — Virtual Assistance Program
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ADDITIONAL INFORMATION

Languages: English (Fluent), Kiswahili (Fluent)

Strengths: Fast learner, detail-oriented, dependable, collaborative

Availability: Remote, hybrid, or on-site