

Newton Muhindi

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Summary

Aspiring Software developer with hands-on experience in full-stack web development, specializing in JavaScript(React, Node.js) and Python(Flask, PostgreSQL, SQLite and Fast-API). Strong foundation in UI/UX design using Figma.

Technical Skills

Languages: JavaScript, Python, HTML, CSS, SQL

Frameworks/Tools: React, Node.js, Git, SQLite, Flask, PostgreSQL, SQLAlchemy

Other: Responsive Design, UI/UX Principles, Version Control, Debugging, WordPress, CI/CD

Education

Moringa School: Software Engineering

February – July, 2025

Relevant Coursework: Data Structures, Algorithms, Web Development, UI/UX Design

Projects

Deliveroo – Parcel Delivery Platform - Capstone Project

- Built a modern parcel delivery system using **React (Vite)** and **FastAPI**, featuring user/admin dashboards, real-time tracking with Leaflet.js, and mobile-first UI with Tailwind CSS.
- Implemented **JWT-based authentication** with role-based access control, allowing users to create and track parcels, and admins to manage deliveries with bulk actions and status updates.
- Engineered a modular backend with FastAPI, SQLAlchemy ORM, Alembic migrations, and a Pydantic-powered API layer; used PostgreSQL for production and SQLite for development.

ClinicMate – Command-Line Clinic Management System

- Developed a Python-based CLI tool for managing patient records and appointments, featuring a clean interface and modular architecture for easy navigation and scalability.
- Integrated **SQLAlchemy ORM** with an **SQLite database** to perform CRUD operations on patient and appointment records while ensuring data consistency and integrity.
- Implemented robust search and filtering features, enabling users to quickly retrieve patient information or appointment schedules by name, contact, or date.

Wellness Tracker – Health Logging Platform

- Built a full-stack web application with **React (Vite)** frontend and **Flask** backend to help users log daily sleep, exercise, and medications, with role-based JWT authentication and a responsive UI.
- Implemented features including **health tracking**, medication management, and a personal dashboard with data visualization and health history filtering, all backed by a normalized **SQLite database** using Flask-SQLAlchemy.

Interests

Figma Application Design, API Design, Cloud Deployment using Render, Continuous Learning.