

LAURINE MAINA

BACKEND WEB DEVELOPER

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SUMMARY

Motivated Backend Web Developer with a strong command of Python and Flask SQLAlchemy, skilled in creating scalable and efficient web applications. Adept at building RESTful APIs, managing databases, and integrating payment systems like M-Pesa. Passionate about contributing to high-performing teams and delivering robust backend solutions for dynamic projects.

SKILLS

- **Programming Languages:** Python
- **Frameworks:** Flask SQLAlchemy
- **Databases:** SQLite, PostgreSQL
- **APIs:** RESTful API Development
- **Version Control:** Git, GitHub
- **Deployment:** Render
- **Other Tools:** SQLAlchemy, Flask-Migrate

PROJECTS

Finance Tracker

June 2024

- Developed a comprehensive finance tracking application using Flask and SQLAlchemy.
- Created RESTful APIs for managing income, expenses, budgets, and financial goals.
- Implemented authentication, allowing users to securely log in and manage their personal financial data.
- Used SQLAlchemy to handle complex queries and relationships between transactions, accounts, and budgets.
- Designed the database schema to ensure data integrity and efficient data retrieval.

Pesa Bank - Personal Finance Management App

July 2024

- Developed backend APIs using Flask and SQLAlchemy to manage users, accounts, transactions, savings, loans, and subscriptions.
- Implemented data validation, authentication, and password hashing.
- Integrated M-Pesa payment gateway for transactions.
- Deployed the application on a live server, ensuring smooth user experience.

Bus Booking System

August 2024

- Designed and implemented a bus booking system with features like bus registration, scheduling, and bookings.
- Created models for buses, customers, and bookings using Flask SQLAlchemy.
- Managed relationships between models and ensured data consistency.
- Implemented session-based user authentication.

M-Pesa Integration in Flask

August 2024

- Integrated M-Pesa STK push in a Flask app for seamless payment processing.
- Used M-Pesa sandbox for testing and validation.
- Implemented secure payment flows and error handling.

Personal Blog API

June 2024

- Developed a blog platform backend with Flask SQLAlchemy.
- Implemented CRUD operations for posts, categories, and comments.
- Ensured efficient query handling and data serialization.

ACHIEVEMENTS

- **Top Backend Developer** at Moringa School - Recognized for outstanding performance in web development, particularly in database management and API integration.
- **Deployed multiple live applications** including a Pesa Bank and a bus booking system, all with secure user authentication and payment systems.
- **Open-source Contributor** - Actively contributed to GitHub repositories aimed at improving Python tools and Flask-based web solutions.
- **Integrated M-Pesa Payments** into multiple projects, streamlining user transactions and automating payment workflows.

EDUCATION

Software Engineering

Moringa School, Expected Graduation: November 2024

PASSIONS

- **Innovative Backend Solutions:** Passionate about creating efficient, scalable backend systems that enhance user experience and performance.
- **Learning New Technologies:** Continuously exploring new frameworks, tools, and programming languages to stay ahead in the tech industry.
- **Community Engagement:** Actively involved in tech communities, sharing knowledge and collaborating on projects.
- **Problem Solving:** Enthusiastic about tackling challenges and developing creative, data-driven solutions for real-world problems.