**MERCY NJAMBI KARITU**

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# SUMMARY

I am passionate about software development, machine learning, data analysis, and visualization, with a strong foundation in data science, predictive modelling, and statistical computing. Experienced in building dynamic and scalable web applications using **React.js** and **Django**, with a focus on seamless integration between frontend and backend systems. Skilled in **Python**, **TensorFlow**, **Pandas**, and **NumPy** for data preprocessing, model training, and algorithm optimization. A continuous learner who thrives on solving problems, exploring new technologies, and collaborating on impactful, tech-driven projects.

# TECHNICAL SKILLS

**Programming & Scripting:** Python (Flask, Pandas, NumPy), JavaScript

**Web Development:** React.js, Tailwind CSS, Flask

**Data Analysis & Visualization:** Excel, Python (Pandas, Matplotlib), SQL

**Databases:** SQL (PostgreSQL, MySQL)

TECHNICAL PROJECTS

**Tabibu**

A full-stack Doctor Appointment Booking system built with React, Django, MongoDB, and Express. This project allows patients to book appointments, doctors to manage their appointments and earnings, and admins to manage appointments and doctor profiles**.**

**Inventory Management system**

The Inventory Management System is a command-line application designed to manage inventory items, categories, suppliers, customers, and orders. The application is built using Python and leverages SQLAlchemy for database interactions and Click for creating the command-line interface (CLI)**.**

* **Developed** the command-line interface using Click, streamlining user interactions.
* **Integrated** SQLAlchemy for seamless database interactions, ensuring efficient data storage and retrieval across all inventory components.

**Ladha**

Ladha is a user-friendly web application designed to help users discover, view, and manage recipes. Users can search for recipes, view detailed instructions, and favorite their preferred recipes.

* **Fetched** data from the mealdb API, enabling dynamic content updates and real-time recipe searches, resulting in faster load times and more accurate search results.
* **Designed** the frontend interface, ensuring an intuitive and visually appealing user experience that increased user engagement.

**MY VOTE MY CHOICE**

The app allows users to securely register to vote, view candidate profiles, cast votes, and view election results. The application includes a basic admin panel for managing candidates and election data, and incorporates a facial recognition system for enhanced security.

# EDUCATION

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| **BACHELOR OF SCIENCE IN STATISTICS**  University of Nairobi | **September 2022 - April 2026** |
| **SOFTWARE DEVELOPMENT** Moringa school  **KCSE** | **February 2024 - November 2024** |
| Chogoria Girls’ High School scored A- 77 points | **January 2018 - April 2024** |