

# RONO KIMUTAI COLLINS

Syokimau, Machakos

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## Professional Summary

Computer Science undergraduate at Kabarak University with a strong interest in backend and full-stack software development. Experienced in building data-driven web applications using Python, relational databases, and modern frontend frameworks. Seeking an industrial attachment opportunity for the January to April 2026 period to gain hands-on industry experience and contribute to real-world systems.

## Education

### Bachelor of Science in Computer Science

Kabarak University, Nakuru, Kenya

Expected Graduation: December 2026

Relevant Coursework: Data Structures & Algorithms, Database Systems, Web Development, Artificial Intelligence, Rapid Application Development

## Technical Skills

- **Languages:** Python, JavaScript, TypeScript, SQL.
- **Backend Frameworks:** FastAPI, Flask, SQLAlchemy (ORM).
- **Frontend:** React.js, HTML5, CSS3, Tailwind CSS, Bootstrap.
- **Databases:** PostgreSQL (Production), SQLite.
- **AI & Machine Learning:** TensorFlow/Keras, CNNs, Streamlit.
- **Tools & DevOps:** Git, GitHub, Postman (API Testing), VS Code.

## Projects portfolio

### i) Construct Hub – Construction Planning Platform

**Tech Stack:** Python (FastAPI), React, TypeScript, Tailwind CSS, PostgreSQL and SQLAlchemy.

- Designed and developed a full-stack web platform for construction planning, cost estimation, technician discovery, and material sourcing from verified vendors.
- Built RESTful backend APIs using FastAPI and implemented relational database models using SQLAlchemy with PostgreSQL and SQLite.
- Developed a React and TypeScript frontend and integrated AI-assisted features to support contextual guidance and decision-making.

**Your Name**

Street Address, City, ST ZIP Code Telephone

Email Website

**ii) Shirika Court I Management System - Finance Tracking System**

**Tech Stack:** Python (FastAPI), PostgreSQL, Daraja API (M-Pesa), Tailwind CSS.

- Developed a management system for tracking service and garbage collection fees, member contributions, balances, and payment status.
- Implemented backend services using FastAPI and integrated database persistence with PostgreSQL and SQLite.
- Integrated external payment APIs (Daraja) to enable fee payments directly from the application.

**iii) Music Genre Classification System - AI Application**

**Tech Stack:** Python, TensorFlow/Keras, Streamlit.

- Built an AI-based application for classifying music tracks by genre.
- Trained and evaluated machine learning models using both feature-based approaches and deep learning CNN architectures with spectrogram inputs.
- Implemented an interactive frontend using Streamlit for model testing and visualization.

**References**

Available upon request.