

RICKCHARLES MUCHIRA

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GitHub: <https://github.com/RickMuchira>

PROFESSIONAL SUMMARY

Distinction-level Business Information Technology graduate from Strathmore University, skilled in designing and deploying full-stack web applications, AI-powered chatbots, and payment solutions. Proficient in Python, JavaScript, Laravel, and React, with hands-on experience in software projects for academic and real-world use. Eager to apply strong problem-solving and programming abilities to contribute to innovative software development teams.

TECHNICAL SKILLS

Programming: Python, JavaScript (ES6+), PHP

Web & Frameworks: React.js, Next.js, Laravel, Node.js, Express.js, HTML5, CSS3

Databases: MySQL, SQLite

API Integrations: M-Pesa Daraja API, Twilio, WhatsApp Business API

AI/NLP: Retrieval-Augmented Generation (RAG), Groq AI, Prompt Engineering

Tools: Visual Studio Code, Git, GitHub

Development Practices: Agile (Scrum/Kanban), Version Control

PROFESSIONAL EXPERIENCE

STRATHMORE UNIVERSITY - ICT DEPARTMENT

SOFTWARE DEVELOPER INTERN | February 2025 - April 2025

- Developed a comprehensive Security Management System using Laravel (backend) and React (frontend), now in active use across the university.
- Collaborated with ICT and security teams to gather requirements and deliver functional solutions tailored to the institution's needs.
- Led testing and troubleshooting to ensure smooth adoption and user satisfaction.

STRATHMORE UNIVERSITY - ICT DEPARTMENT

SOFTWARE DEVELOPER INTERN | May 2024 - July 2024

- Independently designed and deployed a WhatsApp-based chatbot for the People and Culture department
- Integrated Groq AI for natural language understanding and built a document retrieval system for accurate HR policy responses.
- Utilized Twilio API for seamless WhatsApp integration, improving information access and response times.

PROJECTS

Voting Management System (2025)

- Independently designed and built a complete voting management solution as a side project
- Implemented secure authentication and vote verification mechanisms
- Created intuitive user interfaces for both voters and administrators
- <https://github.com/RickMuchira/VotingSystem.git>

RAG Applications Development (2024)

- Developed retrieval-augmented generation (RAG) applications using Python and Next.js, enabling semantic search over academic materials.
- Implemented vector databases for efficient document retrieval and deployed AI-powered, context-aware chatbots.

M-Pesa Integration Ticketing System (2024)

- Built an event ticketing system integrating Google Forms and the M-Pesa payment gateway, with a Node.js backend for transaction verification.
- Automated real-time sales monitoring and reporting via the Google Sheets API.

Mobile Money Transfer System (2023)

- Led a team to deliver a payment solution with a responsive frontend (HTML, CSS, JavaScript) and a secure PHP/MySQL backend.
- Focused on reliable, secure money transfers and user-friendly design.

EDUCATION

STRATHMORE UNIVERSITY

Diploma in Business Information Technology | 2022-2024

- Graduated with Distinction

MANG'U HIGH SCHOOL

Kenya Certificate of Secondary Education (KCSE) | 2018-2022

KAHAWA BAPTIST ACADEMY

Kenya Certificate of Primary Education (KCPE) | 2007-2017

SOFT SKILLS

- Problem Solving and Analytical Thinking
- Project Management
- Effective Communication
- Team Collaboration
- Adaptability and Quick Learning
- Time Management

LANGUAGES

- English (Fluent)
- Kiswahili (Fluent)

REFERENCES

Dennis Njuguna
Regional Finance Manager
Frigoglass E.A. LTD
Phone: 0724174879
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