# ISRAEL MUTUA

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## PROFESSIONAL SUMMARY

Highly motivated and passionate Software Engineering student specializing in Python and backend development, with a strong foundation in full stack development, AI/ML systems, and software engineering principles. Proficient in designing scalable backend services using Django, Flask, and Laravel, and building modern web applications with HTML, CSS, and JavaScript. Adept at problem solving, reverse engineering, and working with diverse technologies across web, mobile, and game development environments.

## CORE COMPETENCIES

* Backend Development: Django (Primary), Flask, Laravel.
* Programming Languages: Python (Primary), C, C++, C#, Java.
* Web Development: HTML5, CSS3, JavaScript, PHP.
* Databases: MySQL, SQLite, PostgreSQL.
* Version Control: Git & GitHub.
* Concepts: Software Engineering, Reverse Engineering, Game Development, Android Development, RESTful APIs, Data Structures & Algorithms, Database.
* Soft Skills: Excellent Communication, Team Collaboration, Debugging, Critical Thinking.

## EDUCATION

Bachelor of Science in **Software Engineering**  
**Zetech** University, Nairobi  
September 2022 – Expected November 2025

## SKILLS

**Technical Skills:**

* Artificial Intelligence and Machine Learning: I created a Medical Recommendation System powered by Machine Learning
* Programming Languages: I have vast knowledge in several programming languages including C, C++, and C #, Java, Python and SQL.
* Scripting Languages: Advanced HTML, CSS, PHP and Javascript.
* Data Structure and Algorithms
* Git and Github
* Database and SQL Knowledge

**Soft Skills:**

* Communication and collaboration
* Problem solving and Critical Thinking
* Debugging
* Innovation
* Creativity

## PROJECTS HIGHLIGHT

**Medical Recommendation System [Flask]**

* AI Powered Web Application
* Developed a dual system application for patients and doctors using Python, Flask, and Machine Learning.
* Enabled intelligent disease prediction based on symptoms and supported diagnosis of heart, kidney, and diabetic conditions.
* Integrated dynamic frontend interfaces and database storage using MySQL (XAMPP).

**Student Management System [Laravel]**

* Implemented full CRUD operations using MVC architecture.
* Learned Laravel Blade templating and backend routing.

**Customer Relationship Management System [Django]**

* Built customer management features using Django ORM and Django authentication.
* Applied MVT design pattern.

**Inventory Management System [Django]**

* Developed real-time inventory updates and templated UI using Jinja.

**E commerce Website [React JS]**

* Designed a modern UI with Tailwind CSS and React components.
* Enhanced JavaScript skills and responsive UI design.

## TRAINING & WORKSHOPS

* Coffee and Code [Technology park, Mangu] 17th October 2024
* Cybersecurity Awareness [Technology park, Mangu] 1st November 2024
* Maryland x Zetech Networking 18th November 2024
* Blockchain for financial freedom [Zetech, Ruiru] 24th January 2025
* Hack and Play [Technology park] 7th February 2025
* AI IOT Integration [iSSTECH] 26th March 2025
* Global AI Boot camp [Technology Park, Mangu] 29th March 2025

## LANGUAGES

* English: Fluent (Reading, Writing, Speaking)
* Swahili: Fluent (Reading, Writing, Speaking)

## INTERESTS

* Backend Systems & APIs
* Exploring emerging tech (Blockchain, IoT, AI)
* Participating in Hackathons and Competitive Programming
* Game and Mobile App Development
* Continuous Learning & Open Source Contributions
* Robotics