RAJAH YOUSIF HISSEN

RWANDA

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Professional Summary

Passionate and results-driven software developer with hands-on experience in designing and developing innovative solutions to real-world problems. Adept at programming in Java and Python, with expertise in AI, machine learning, and web development. Proven ability to develop complex applications, including AI-powered voice assistants, Management Information Systems, and smart agriculture solutions. Strong analytical thinker with a deep understanding of OOP principles, database management, and GUI development.

Education

INES-Ruhengeri
Bachelor's Degree in Software Engineering
2025

Technical Skills

- **Programming Languages:** Java, Python, C#, JavaScript, SQL

- **Frameworks & Libraries:** Django, .NET Core, NLTK, Flask, Tkinter, Swing, JavaFX

- **Databases:** MySQL, PostgreSQL, SQLite

- **Development Tools:** Git, Docker, VS Code, PyCharm, Eclipse

- **Software Development Areas:** AI & Machine Learning, Web Development, Desktop Applications, Database Management, GUI Design

- **Cloud & Deployment:** AWS, Firebase, CI/CD Pipelines

Projects & Experience

AI-Based Desktop Smart Voice Assistant *(Final Year Project)*

- Developed an offline smart voice assistant with features like note-taking, scheduling, and alarms.

- Integrated AI-powered speech recognition and natural language processing using Python and NLTK.

- Designed a GUI for user-friendly interaction using Tkinter.

Management Information System (MIS) Using Python

- Built an MIS for efficient data management and processing.

- Implemented CRUD operations and authentication features.

- Used Django for web-based functionality and MySQL for data storage.

Meeting & Conference Booking System

- Developed a system to facilitate online booking and scheduling of meetings.

- Integrated user authentication, session management, and real-time notifications.

- Designed an intuitive interface using .NET and C#.

Library Management System (LMS)

- Built a GUI-based LMS using Java Swing and JavaFX.

- Implemented book cataloging, borrowing, and return functionalities with MySQL database integration.

- Optimized search and filtering operations using Java collections.

AI in Rwanda – Research & Blog

- Conducted in-depth research on AI applications in Rwanda across agriculture, healthcare, and governance.

- Authored a detailed blog highlighting AI's impact and future potential in the country.

Certifications & Training

- Certified in **Python for Data Science & AI** – IBM

- Java Programming Certification – Oracle

- Web Development with Django – Udemy

- AI & Machine Learning Fundamentals – Coursera

Soft Skills

- Problem-Solving & Analytical Thinking

- Team Collaboration & Leadership

- Project Management & Time Management

- Critical Thinking & Decision Making

- Effective Communication & Technical Documentation

Languages

- English (Fluent)

- Arabic (Fluent)

Extracurricular & Interests

- Passionate about technology and innovation in software development.

- Interested in quantum computing algorithms for cryptography.

- Enthusiastic about smart agriculture and drone technology for farming solutions.

- Active contributor to open-source projects and tech communities.

References

Available upon request.