Juma Filberto George Andrea

📍 Ruhengeri, Rwanda

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Professional Summary

Computer Science student at INES Ruhengeri with hands-on experience in full-stack development and machine learning projects. Passionate about leveraging technology to solve real-world problems, particularly in agricultural innovation and software solutions. A collaborative team player with proven success in hackathons and research projects.

Technical Skills

- Programming
- Python (90%), JavaScript (75%)
- Data Science
- Machine Learning (85%)
- SQL (80%)
- Git, TensorFlow, React

Projects

- Agrishield - AI-Based Crop Disease Detection (Dissertation)

Developed an AI-powered system to detect crop diseases and recommend remedies for smallholder farmers

Achieved 95% accuracy in disease identification using CNN models

Integrated with mobile interface for farmer accessibility

- Library Management System (Individual)

- Created a full-stack system for book tracking and fine calculation

- Implemented SQL database with automated overdue notification system
- Reduced manual record-keeping by 80% for pilot library
- Visit Rwanda Tourism Platform (Group Project)

Built a recommendation engine for tourism locations in Rwanda

Education

INES Ruhengeri

Bachelor of Science in Computer Science | 2022- Present

Relevant Coursework: Machine Learning, Database Systems

Certifications

- SoloLearn Certificate for Python
- SoloLearn Certificate for Java

Experience

- Software Development Intern
- Contributed to enterprise-level web application development
- Implemented REST APIs using Python/Django
- Optimized database queries improving system performance by 30%

Awards & Achievements

- Published Research Paper: "AI in Agricultural Diagnostics" (2025)

References available upon request