

ASMAN MAKERO MUSA

Computer Science Student | AI & Software Engineering Specialist

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PROFESSIONAL PROFILE

Analytical Computer Science undergraduate at the University of Nairobi specializing in low-level systems programming (C/C++), AI workflows, and modern data architectures. Experienced in Large Language Model (LLM) benchmarking, prompt engineering, agentic AI systems, and cloud-native AI services (Amazon Bedrock). Proven expertise in designing relational databases, automating system documentation, and evaluating technical code outputs for accuracy and structural logic. Passionate about applying rigorous AI evaluation and software development principles in high-impact technical environments.

TECHNICAL EXPERTISE

Core Languages:	Python, C, C++, SQL (Oracle, SQL Server)
AI & ML Architecture:	Prompt Engineering, LLM Evaluation & Benchmarking, Multi-Agent Systems, Generative AI, Amazon Bedrock
Databases & Analytics:	Oracle Database, Oracle APEX, SQL Server, Power BI, Excel, SSMS, SQL Developer
Systems & Tools:	Linux (Red Hat), Git/GitHub, Streamlit, Zapier, Automation Tools, Microsoft Teams
Specialized Skills:	RLHF & Model Output Evaluation, Automated Technical Documentation, Code Debugging, System Design

TECHNICAL & AI PROJECTS

Multi-Agent AI Automation System PLP Academy Capstone	2026
- Architected an autonomous multi-agent framework utilizing three specialized AI agents communicating sequentially to accomplish complex workflows. - Designed strict system prompt constraints and structured interaction protocols to ensure error-free handoffs and task execution.	
Custom AI Architecture & Template Engine Amazon Bedrock	2026
- Engineered custom AI templates and model pipeline wrappers using Amazon Bedrock to deliver tailored enterprise outputs. - Implemented system-level prompt parameters to evaluate response fidelity, latency, and context adherence across custom tasks.	
Data Annotation, LLM Benchmarking & Automation Independent / Applied	2025 – 2026
- Performed comparative evaluations and A/B benchmarking across top commercial LLMs to analyze code correctness, reasoning quality, and hallucination rates. - Integrated workflow automations utilizing Zapier and AI APIs to streamline output validation and data categorization.	
Interactive Sports Analytics Application ("Bundesliga Wrapped") Streamlit & ML	2026
- Built and deployed an interactive web application leveraging Streamlit to visualize complex sports data and analytics. - Integrated backend analytical scripts with a user-friendly frontend interface for real-time statistical generation.	
Health Facility Resource Management System & Automated Documentation Oracle & SQL Server	2025
- Designed full-stack relational database models (3NF) using SQL Server and Oracle Database with Oracle APEX web interfaces. - Built automated documentation pipelines directly from the backend to generate complete user and technical system documentation automatically.	

PROFESSIONAL EXPERIENCE

Intern – Operations, Credit & Customer Service | Equity Bank Kenya

- Managed customer support operations, CRM platform interactions, and end-to-end loan credit workflows in a fast-paced corporate environment.
- Collaborated across cross-functional teams utilizing Microsoft Teams to execute daily operational tasks, sales reporting, and insurance services.
- Applied rigorous analytical problem-solving and detail-oriented verification processes for client documentation and credit records.

EDUCATION

Bachelor of Science in Computer Science | University of Nairobi

Expected Graduation: 2029

- Key Focus Areas: Low-Level Programming (C/C++), Data Structures & Algorithms, Database Management Systems, Software Engineering, AI Fundamentals.

CERTIFICATIONS & SPECIALIZED CREDENTIALS

AI / Machine Learning Certification Udacity & Amazon Web Services (AWS)	Generative AI & Prompt Engineering (AI Safari) PLP Academy
Advanced C++ Programming Cisco Networking Academy	Linux System Administration Red Hat Academy
Networking Foundations Internet Society of Kenya	Foundations of Cybersecurity Coursera