

Dan Ahimbisibwe

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EDUCATION

New York University | Brooklyn, NY

Expected Graduation, May 2026

Master of Science, Computer Engineering

- **Courses:** Machine Learning, Deep Learning, Big Data, Database Systems, ML for Cybersecurity, Embedded Systems

Kyambogo University

Graduated Sept 2021

Bachelor of Engineering in Telecommunications Engineering

GPA: 4.42/5.0 (Top 1% of class)

SKILLS

Programming & Tools: Python, SQL, Java, C++, R, MATLAB, Git, Bash, Linux

Agentic AI: OpenAI SDK, CrewAI, AutoGen, LangChain, LangGraph, MCP, RAG, multi-agent orchestration, N8N

ML/DL Frameworks: PyTorch, TensorFlow, scikit-learn, HuggingFace Transformers, Keras

Cloud & Big Data: AWS, GCP, Azure, Apache Spark, Hadoop, MapReduce, MongoDB, PostgreSQL

Deployment & Visualization: Docker, Streamlit, Flask, MLflow, Airflow, Tableau, Power BI, Matplotlib, Seaborn

PROJECTS

AI Agents & Automation

- **AI-Powered Resume Analyzer:** Engineered a multi-agent system using **CrewAI** and **Gradio** that matched resumes to jobs and automatically produced design docs, a web UI, and test cases.
- **Personal Career Chatbot:** Launched an interactive chatbot on **Hugging Face Spaces** that answers questions about education, work, and career; integrated SMS alerts when queries fell outside knowledge scope.
- **Job Search Automation:** Deployed an end-to-end workflow with **LLMs**, **SendGrid**, **OpenAI API**; scanned postings, compiled reports (*role, company, location, link*), and delivered results directly via email.
- **Sponsorship Outreach System:** Designed an AI-driven pipeline that drafted tailored cold emails, assessed tone/fit, and sent polished emails to sponsors, boosting conference engagement.

Financial & Business AI

- **Financial Analyst Platform & Stock Picker AI System:** Orchestrated AI workflows simulating analyst tasks with **CrewAI**, **Pydantic**, **SerperDevTool**, gathering company financial data, risks, and opportunities; generated structured reports with summaries, market outlooks, and **investment recommendations**.

Computer Vision & NLP

- **Crime Detection via CCTV:** Programmed an AI system using **OpenCV**, **YOLOv5**, and **spaCy NLP** to detect violent events from video streams and subtitles; achieved **78% accuracy** and cut police response time by **45%**.
- **Text Classification with LoRA:** Fine-tuned LLMs using **LoRA (PEFT)** on AG News, reaching **85% accuracy**; also built models for student performance prediction (86%) and social media virality analysis (83%).

Leadership & Impact

- Raised **\$55K+** for STEM programs reaching **10K+ students**; grew IEEE membership by **420%**; trained **1,500+ girls on reusable pads and menstrual health**; won **15+ travel grants**; organized **20+** technical events.

EXPERIENCE

New York University

Brooklyn, NY

Research Assistant — AI in Education

Jun 2025 – Present

- Researching generative AI applications in EdTech to improve student engagement, integrity, and instructional support.
- Analyzing survey and experimental data to evaluate the impact of AI-assisted tools on student performance.
- Collaborating with a cross-disciplinary team to design, prototype, and test AI-driven educational systems.

ZTE Limited

Mar 2024 – Jun 2024

Network and Systems Analyst

- Monitored and optimized KPIs for Access and Core Networks, reducing incident frequency by 20%.
- Automated log parsing and pattern detection in Python, accelerating incident resolution by 30%.
- Built product analytics dashboards with Tableau and SQL to identify trends and inform business strategy.

Uganda Communications Commission

May 2022 – Dec 2023

Systems Test Engineer and Automation Developer

- Reviewed and tested over **900 telecom devices** for compliance, improving approval efficiency by 10%
- Streamlined **approval records and e-filing systems**, cutting document retrieval time by **40%**.
- Developed **automated testing scripts in Python**, boosting evaluation speed by **25%**.

Shoppu Online

Mar 2020 – Dec 2022

Software & Data Engineer

- Implemented a **full-stack e-commerce app** (React Native, MySQL) handling **1,000+ transactions/month**.
- Improved the **payment workflow**, cutting errors by **10%** and boosting engagement by **20%** through UI updates.