

Dan Ahimbisibwe

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PERSONAL STATEMENT

Seasoned Computer Engineer specializing in AI/ML systems, data automation, analytics and scalable production pipelines.

EXPERIENCE

New York University

Brooklyn, NY

Graduate Assistant

September 2024 – Present

- Reviewed over 8,000 student applications for faculty evaluation, ensuring compliance with admission criteria.
- Handled 30+ prospective student inquiries per week via email and phone, enhancing applicant satisfaction.
- Coordinated campus tours and webinars, boosting prospective student engagement by 20%.
- Recognized top-performing GA for consistently exceeding expectations in responsiveness and operational support.

ZTE Limited

March 2024 – June 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 – December 2023

Systems Test Engineer and Automation Developer

- Reviewed and tested over **900 telecom devices** to ensure they met international safety and network performance standards, improving approval efficiency and turnaround time.
- Streamlined **approval records and e-filing systems**, cutting document retrieval time by **40%**.
- Developed **automated testing scripts in Python**, boosting evaluation speed by **25%**.

Edel Technologies Limited

September 2020 – May 2022

Technical Solutions Engineer

- Developed and optimized **technical proposals** for over **50 projects**, securing contracts worth over **\$2M**.
- Led software testing and deployment of networked systems across telecom and health sectors.

Shoppu Online

March 2020 – December 2022

Software & Data Engineer

- Built 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/UX updates.
- Analyzed **user behavior data** to uncover trends that informed **product decisions** and UX improvements.

EDUCATION

New York University | Brooklyn, NY

Expected Graduation, May 2026

Master of Science, Computer Engineering

- Courses:** Machine Learning, Deep Learning, Big Data, Databases, Internet Protocols, Embedded Systems

Kyambogo University

Graduated Sept 2021

Bachelor of Engineering in Telecommunications Engineering

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

SELECTED PROJECTS

- Crime Detection via CCTV:** Built an AI system using **OpenCV**, **YOLOv5**, and **spaCy NLP** to detect violent events from video streams and subtitles; achieved **78% accuracy** and reduced police response time by **45%**.
- Real-Time Parkinson's Monitoring:** Developed a tremor detection pipeline using **MPU6050 sensors**, **Python**, and **scikit-learn**; achieved **92% accuracy**, enabling **30% faster treatment** response through real-time alerts.
- Other Projects:** Trained models to forecast student performance (86% accuracy), deployed a national COVID-19 dashboard, and predicted video virality across 500K+ social media with 83% accuracy using key engagement metrics.
- Leadership & Impact:** Raised **\$55K+** for STEM programs (*robotics, AI training, electronics prototyping*) reaching **10K+ students**; grew IEEE student body by **420%** (events and outreach); led training for **1,500+ girls** on reusable pads and menstrual health; **won 10+ competitive travel grants**; organized **20+** technical and community events.

SKILLS & INTERESTS

Programming & Tools: Python, SQL, Java, C++, R, MATLAB, Git, Bash, Linux, CNN, LSTM, Random Forests

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

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

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

Other Experiences: IT Intern at **WebInforNet** (*Java, ReactJS, HTML/CSS, hardware/software troubleshooting*);

Data Entrant at **National Exams Board** (*entered 100K+ records*); Assistant Project Engineer at **Voitech** (*server*

setup, telecom config for telehealth); Founder, **DTD Services** (*Windows/Linux OS installations, phone/laptop repairs, IT support*)