Kennedy Maturure

Philadelphia PA 19104 / 215 397 5780 / kjm478@drexel.edu / www.linkedin.com/in/kennedy-maturure/ github.com/Kjm478

EDUCATION

Drexel University — Philadelphia PA
Master of Science in Computer Science — Expected Graduation: June 2026
Major: Artificial Intelligence and Machine Learning — GPA: 3.73

National University of Science and Technology — Bulawayo, Zimbabwe
Bachelor of Science in Computer Science — GPA: 3.7

PROFESSIONAL EXPERIENCE

Kanoa Inc. — Philadelphia, PA(Hybrid)
Full Stack Developer (Full-Time) — Sep 2025- Present

- Architected full-stack MES modules using React, Node.js, and PostgreSQL, enabling real-time production analytics for 10+ client facilities.
- Automated data synchronization with REST APIs and AWS Lambda, reducing manual reporting time by 40%.
- Integrated ML inference pipelines for predictive downtime alerts with FastAPI and Pytorch, improving maintenance planning accuracy.
- Developed QA automation scripts with Playwright, streamlining regression testing and reducing manual QA workload by 50%**.**
- Deployed CI/CD workflows via GitHub Actions and Docker, ensuring <5-minute zero-downtime releases

Mealie Brand Zimbabwe — Bulawayo, Zimbabwe
Information Technology Intern — Jan 2021 – Nov 2022

- Optimized MySQL and SQL Server queries, reducing data retrieval time by 35% for faster business reporting.
- Automated ETL workflows with Python and Apache Airflow, saving 10 hours weekly in data processing.
- Managed Sage ERP updates with <5% downtime, ensuring operational continuity across departments.
- Resolved IT tickets with a 95% success rate using ITSM tools and remote desktop support.
- Improved data accuracy by implementing cross-platform validation checks, reducing inconsistencies by 25%.

PROJECTS

AI Personal Fitness Tool (Full Stack LLM-powered) — Winter 2025

- Delivered an AI-driven fitness coach app for 120+ users, integrating Streamlit frontend and FastAPI backend for personalized nutrition and workout plans.
- Engineered multi-agent ChatGPT-4o pipelines via Langflow, improving recommendation relevance by 35%.
- Deployed scalable microservices on AWS EC2 with Docker and GitHub Actions CI/CD, cutting deployment time from an hour to 5 minutes.
- Achieved 99.9% uptime and near-time response(<300ms) through optimized API orchestration and caching.

Predicting Diabetes from Health Indicators
Machine Learning Academic Project — Fall 2024

- Created an ML pipeline using CDC Diabetes Health Indicators data (100k train, 25k validation) to classify diabetes risk profiles.
- Applied PCA for dimensionality reduction and trained Logistic Regression and SVM models, achieving 90% accuracy.
- Analyzed feature importance to identify lifestyle factors for preventative healthcare strategies

TECHNICAL SKILLS

Programming: Python, C++, Java, C
Machine Learning & AI: TensorFlow, Pytorch, Scikit-learn, OpenCV, Langchain, Langflow, Prompt Engineering
Data Science & Analytics: NumPy, Pandas, Matplotlib, Hadoop, PCA, SVM, Logistic Regression, Spark
Cloud & Databases: AWS, Astra DB, MySQL, SQL Server, GitHub Actions
Frameworks & Tools: Streamlit, Apache Airflow, Git, Agile development, CI/CD, Docker, FastAPI, REST API, Playwright

RELEVANT COURSEWORK

Artificial Intelligence, Machine Learning, Computer Vision, Data Science at Scale, Data Structures and Algorithms, Applications Machine Learning, Reinforcement Learning, Information System Security, Software Engineering.

ORGANIZATIONS

- Drexel AI, IEEE Computer Society — 2024 – Present