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DEFI MALEJI KAPABA

PROFESIONAL SUMMARY

I'm a Computer Science student with a solid background in discrete math, algorithms, and computational theory. I enjoy building efficient systems and working with languages like Java, Python, C++, R and SQL, especially in areas like software development, data analysis, and GIS.

SKILLS

- Programming Languages: Java, Python, C++, SQL, R
- Data Analysis & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch,
- Tools & Software: Visual Studio Code, Eclipse, Microsoft Office, GIT, Docker, Jupyter
- Database & Big Data: MySQL, ProtegeSQL, MongoDB
- Languages: Fluent in English and French

EXPERIENCE

*Ai Developer — Predictive Maintenance System for Vehicles
Personal Project | Summer 2025 - Present

- Designed and built an AI-powered predictive maintenance system that analyzes vehicle sensor data to forecast mechanical failures before they occur.
- Developed and trained machine learning models using Python and scikit-learn to identify patterns in engine, temperature, and mileage data.

- Delivered a complete software package with technical documentation, model evaluation metrics, and a user-friendly interface for diagnostics visualization. forecast mechanical failures before they occur.
- Emphasized modular code structure and reproducible data pipelines to ensure maintainability and future integration with IoT systems.

*Software Developer — Database-Backed Java Application
University of Nebraska-Lincoln | Spring 2025

- Built a full-stack Java application for a simulated construction company, integrating a relational database for backend data management.
- Delivered JAR files, technical design documents, test cases, and database schemas across iterative development phases.
- Focused on clean, modular, and scalable code while applying best practices to minimize technical debt.

EDUCATION

*Bachelor of Science in Computer Science
University of Nebraska-Lincoln | May 2028