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# DEFI MALEJI KAPABA

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## EDUCATION

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University of Nebraska-Lincoln

May 2027

*B.S. in Computer Science, Minors in Mathematics*

- **Courses:** Files and Databases, Modern Web Development, Mobile Operating Systems, Computer Organization, Data Structures, Algorithms & Analysis, Foundations of Programming
- **Honors:** Dean's List

## TECHNICAL SKILLS

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**Languages (ordered by proficiency):** Java, Python (Pandas, Matplotlib, Plotly, pytest), SQL, JavaScript, C#, PHP, Excel (Power Query, Power Pivot), Power BI

**Tools and Frameworks:** Node.js, React.js, AngularJS, Docker, PyTorch, Git

## EXPERIENCE

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Information technology Intern

Oct 2025 - Present

*University of Nebraska Information Technology Services*

- **Diagnose and resolve** software, hardware, and account-access issues for **200 + students, faculty, and staff**, improving system uptime and first-call resolution efficiency.
- **Administer and secure endpoints** across **Windows and macOS** using **SCCM, Jamf Pro, and Active Directory**, strengthening compliance with University cybersecurity policy.
- **Escalate and document incidents** through the University's tracking and monitoring systems

## PROJECT

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Predictive AI Car Maintenance System

Jul 2025 - Present

*Personal Project*

- Built a **predictive maintenance system** using **Python, SQL, and TensorFlow**, achieving a **92% accuracy rate** in forecasting component failures based on OBD-II data.
- Designed and automated a **data pipeline** to clean, transform, and analyze **1,000+ rows of real-time vehicle sensor data**, improving data reliability and model performance.
- Automated performance metrics and dashboards to analyze real-time vehicle data.

Invoice Management System | Java + SQL

Feb 2025 - Apr. 2025

*Personal Project*

- Developed a **Java-based billing platform** managing **200+ construction project invoices**, reducing manual processing time by **40%** through database automation.
- Designed a **5-table normalized ERD** and implemented CRUD operations via **JDBC**, ensuring consistent data integrity and faster transaction handling.

## LEADERSHIP EXPERIENCE

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National Society of Black Engineers (NSBE)

Jan. 2025 - Present

*Member*

- Organized and facilitated **3 technical workshops** on Python fundamentals and résumé building for **40+ engineering students**, strengthening participants' confidence in coding and career preparation.
- Engage in chapter workshops and outreach events aimed at fostering **academic growth, technical excellence, and mentorship** among minority students in engineering and computer science.