KISHA MULENGA

(574) 378-5880|kisha.mulenga@students.cookman.edu | linkedin.com/in/kishamulenga|
github.com/KishaMulenga

EDUCATION

Bethune Cookman University (BCU) - *Cumulative GPA: 3.91/4.0* Daytona Beach, Florida
Major: Bachelor of Science in Computer Science Graduation: December 2026
Relevant Coursework: Calculus I & II, Computer Programming I & II (Java Object Oriented Programming), Linear algebra, Fundamentals of Scientific Computing, Databases (NoSQL, SQL)
Honors and Scholarships: President's list, Honors Student, NASA MUREP DEAP Scholar

PROFESSIONAL SKILLS

Programming Languages: Python, Java, HTML, JavaScript, CSS, C++,
Technologies/Frameworks: Flask, React, Git, Tableau, QGIS, Figma, MySQL, Tailwind

PROFESSIONAL EXPERIENCE

Bethune-Cookman University – *Undergraduate Researcher* August 2023 - Present

- Conducting **machine learning-based research** on flood mapping using a virtual constellation of multispectral and synthetic aperture radar satellites, enhancing data integration and uncertainty estimation techniques.
- Participated in a collaborative research initiative with HBCUs and NASA Centers, contributing to the development of advanced environmental intelligence systems for space-based earth sciences

National Aeronautical Space Administration – *Disaster Applications Intern* June 2024 – August 2024

- Analyzed **Planet Optical satellite imagery** to identify proper model parameters, input data and generate training samples for a Python-based model utilizing red, green, blue, and near-infrared bands in QGIS
- Developed a classifier using the **Random Forest algorithm** to generate flood maps with **75%** accuracy, improving the precision of disaster response efforts.

Sponsors for Educational Opportunity – *Software developer Intern* May 2024 – July 2024

- Implement and streamline scalable web applications integrating **APIs**, **Python (Flask) & MySQL** for backend operations and **JavaScript & HTML/CSS** for the frontend to ensuring optimal functionality
- **Direct Agile sprin**t planning sessions within Scrum teams to conceive, design, and launch over 15 user-driven features, establishing a feedback loop that increased user satisfaction by 12% and retention by 15%.

PROJECTS

IntelliPoker App

- Developed an AI-driven poker game using **Python and Flask**, improving gameplay logic efficiency by 25% and enhancing user engagement through real-time strategic insights
- Integrated ChatGPT for interactive in-game commentary, processing thousands of player decisions and providing real-time feedback to enrich the gaming experience.

Gourmet Guide

- Developed a terminal-based restaurant management application using **Python**, **Yelp API, ChatGPT API** enhancing a users restaurant search based on their preferences.
- Integrated a **SQLite database** for efficient storage and retrieval of user information, implementing unit tests and validity functions to preventing application crashes due to invalid inputs.

INVOLVEMENT ACTIVITIES

EcoCar Electrical Vehicle Challenge – *Equity in Mobility lead* January 2023 – Present

- Collaborated with a **team of 20+ individuals** in a four-year competition to enhance electric vehicle solutions through disassembly, rebuilding, and UX/UI improvements.
- Attended team meetings, facilitating open discussions, delivering comprehensive progress updates, and resolving technical challenges, leading to a 25% reduction in project timelines and improved cross-functional collaboration.

Bethune-Cookman University Mathematics Department – *Mathematics Tutor* September 2023 - Present

- Guided personalized math tutoring to **30-45 students** at different levels to help achieve academic goals and increase overall student performance **by 25%** and class attendance by **35%.**
- Fostered a supportive and engaging learning environment that encourages students to ask questions, explore new concepts grades, and build confidence in math, resulting in 100% positive feedback