

SHAUN MONGAMELI SIBANDA

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EDUCATION

Ashesi University

Accra, Ghana

BSc. Computer Science|CGPA: 3.74/4.00

Expected Date of Graduation: June 2028

Relevant Coursework: Computer Programming, Object-Oriented Programming, Discrete Structures & Theory

SKILLS

- Programming Languages: Python, JAVA, R
- Frameworks and Libraries: NumPy, Pandas, Matplotlib, and Flask
- Software/Tool: VS Code, Git/GitHub, Sublime Text, IntelliJ, Render.

PROJECTS

[Ashesi Meal Plan Analysis](#)

Sept 2025 – Oct 2025

- Engineered a Flask-based web app that analyzes Ashesi University's meal plan data, with Pandas and Plotly powering automated visualization and insight generation.
- Deployed the interactive dashboard on Render with version control and collaboration through GitHub.

[Fuzzy Traffic Light System](#)

Nov 2025 - present

- Leading a team of four to develop a Java-based fuzzy logic traffic system that adjusts timing based on real-time density and wait time.
- Designed and implemented membership functions, rule bases, and the complete fuzzification → inference → defuzzification pipeline.
- Improved simulated intersection flow by optimizing signal timing through intelligent heuristics.

[Life Cycle Assessment \(LCA\) Tool](#)

Nov 2025 - present

- Developing a Java tool that evaluates environmental impacts across a product's lifecycle using material, energy, and emission parameters.
- Built a lightweight interface that allows users to compare products and auto-generate summary reports to support sustainability decisions.
- Applied object-oriented design principles to manage modular impact categories and data structures

WORK EXPERIENCE

Emzini weCode - (Remote)

June 2025 - Aug 2025

Faculty Intern

- Collaborated with instructors to develop 12 detailed Computer Programming lesson plans for over 300 students.
- Mentored beginner programmers through debugging sessions and project-based learning activities.

USAP Community School – Marondera, Zimbabwe

Aug 2024 - Dec 2024

Faculty Intern

- Taught Cambridge A-Level Physics and served as Resident Advisor for boys.
- Oversaw IT operations, troubleshooted technical issues, and maintained system efficiency across the school.

Nust American Space - Bulawayo, Zimbabwe

Feb 2024 - July 2024

Intern

- Managed event logistics and engaged with guests at the American Space, acting as the primary point of contact in the patron's absence.

ACHIEVEMENTS/AWARDS

The MasterCard Foundation Scholar Program Scholarship, Ashesi University

Jan 2025 - July 2028

USAP Community School Scholarship, USAP Community School

Jan 2022 - Nov 2023

CO-CURRICULAR ACTIVITIES

Ashesi University, The Ensemble

Jan 2025 – Present

- Play the piano.

REFERENCES

Available upon request