

SHAUN MONGAMELI SIBANDA

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EDUCATION

Ashesi University, Accra, Ghana
BSc. Computer Science | CGPA: 3.84/4.00
Expected Date of Graduation: June 2028
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Discrete Structures & Theory, Introduction to AI, Database Management

SKILLS

- Programming Languages: Python, Java, R, HTML/CSS, SQL, JavaScript
- Frameworks and Libraries: FastAPI, PyTorch, Scikit-learn, NumPy, Pandas
- Software/Tool: Git/GitHub, PostgreSQL, MariaDB

WORK EXPERIENCE

InnBucks Microbank - Software Engineering Intern Mar 2026 – Apr 2026
Harare, Zimbabwe

- Engineered API Call History and Webhooks interfaces for the developer portal using React, improving integration visibility and troubleshooting for third-party clients.
- Designed and built a fraud detection microservice using FastAPI, PostgreSQL, and SQLAlchemy, applying device fingerprinting and composite risk scoring to identify suspicious account activity.

Emzini weCode - Faculty Intern Jun 2025 – Aug 2025
Remote

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

PROJECTS

Adinkra Symbol Deep Learning Classifier Jul 2026 – Aug 2026

- Built and trained a CNN using PyTorch and Torchvision to classify image data across 96 distinct Adinkra symbol classes.
- Applied data augmentation, dropout regularization, and learning rate scheduling to achieve 81% validation accuracy and 76% test accuracy, while maintaining the generalization gap within 5%.

Temvas School Learning System Jul 2026 – Aug 2026

- Designed a 3NF-normalized relational database for the Temvas School Learning System, modeling relationships across students, courses, enrollments, and grade records.
- Implemented indexed tables, stored procedures, and triggers to enforce referential integrity and support role-based access control.

Fuzzy Traffic Light System Nov 2025 – Dec 2025

- Led a team of four to develop a Python-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.

ACHIEVEMENTS/AWARDS

The MasterCard Foundation Scholar Program Scholarship, Ashesi University Jan 2025 – Jul 2028
USAP Community School Scholarship, USAP Community School Jan 2022 – Nov 2023

CO-CURRICULAR ACTIVITIES

Ashesi University, The Ensemble Jan 2025 – Present

- Perform as a pianist in the university ensemble, committing to weekly rehearsals and collaborative public performances.