SHAWAL MBALIRE

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Python C++ C C-sharp JavaScript HTML CSS SQL MATLAB Arduino AHDL Git Bash LaTeX Linux

Education

Makerere University, Kampala *Feb 2022 - Jan 2026*
Bachelor of Science, Electrical Engineering.   CGPA: 3.99

CodeIT Institute of Technology *Aug 2022 - Jan 2022*
Certificate in python, aws, blockchain

Run Automations and Robotics *Sep 2022 - Oct 2022*
Certificate in IOT and Embedded systems

Projects

Unity Cyber Security Game
A third person shooter based on unity engine and C-sharp to teach CyberSecurity to teenagers

Python Text to speech
A gui python project to call apis or libraries like gtts to speak out text

Python Location FInder
A python project to find location by checking the Ip address of a given device connected to the internet

Patient Database
A web application invoking an online nosql Database Dynamo Db to store patient data on cloud

IOT Attendance Monitoring
A low cost RFID attendance system for employees at a small enterprise in Uganda

Qr code students Attendance
An automated data entry system for student in universities to only print a qr code for attendance monitoring.

Student Calendar
A calendar with flutter emapsizing upcoming tests that can be updated by a class representative then shared to everyone else in the class

Hackathons

UNESCO India-Africa Hackathon
- Selected as one of 19 students to represent Uganda in India to develop solutions for Africa

8th CAMTECH Med-Tech Hackathon
- Ideated to develop solutions for faster data entry to reduce the tool on nurses in Uganda

Decentralised Umoja 3 Bount Hack
- Developed a solution for the price is right problem .
- Created a how to guide on creating the project for other learners to gain assistance.

Coding Contests

IEEE Extreme
Google Kickstart

LeaderShip

Chair IEEE Makerere University Student Branch
Sep 2022 - Sep 2023
- Increased membership sixfold through publicising IEEE events on social media.
- Doubled the number of student chapters by forming relations with lecturers.

Vice-Chair Makerere University RedCross Chapter
Sep 2022 - Sep 2023
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Coordinator Makerere University RedCross Chapter
Feb 2022 - Sep 2022
- Increased the blood donations count by 50 percent relative to other colleges in University by reaching out to the respective class leaders and puhing for donation.
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Work

Shop Assistant Zenith Auto Spare Parts
Aug 2018 - Feb 2022
- Increased customers by 5 after registering business by registering the business on google maps
- Improved book keeping by printing data entry books

Other