

# SHAWAL MBALIRE

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shawalmbalire.com

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