



# Amwine Nickson

## Computer Engineer



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<https://www.github.com/NicksonAmwine>

### EDUCATION

#### Bachelor of Science in Computer

#### Engineering - Makerere University

Jan 2025 (Expected), GPA: 4.09/5

#### Uganda Advanced Certificate of Education

- Mengo Senior School

Nov 2019, Points: 19/20

#### Uganda Certificate of Education - Mbarara

High School

Nov 2017, AGG: 14/8

### SKILLS

#### Technical Skills

- Computer networking
- Embedded System development
- Machine learning (Supervised learning
  - Regression and classification model training, evaluation and deployment)
- Web development with Django
- Computer systems setup, maintenance, and repair
- Cyber security Analysis
- Python, C, HTML, CSS, SQL, JavaScript
- Microsoft Office Suite
- Project Management

#### Soft skills

- Problem-solving
- Excellent communication
- Innovative and Detail oriented
- Adaptability and Time management

### SUMMARY

- Ambitious, fast learner, an effective team player, and a strong independent performer.
- Highly motivated to learn and expand my knowledge both within and beyond my academic field.
- Persistent problem-solving mindset and adaptability to various levels of supervision and environments.
- Committed to delivering high-quality results promptly.

### WORK EXPERIENCE

#### Internship

June 2023 - Aug 2023

netLabs!UG Research Center, Makerere-Kampala

- Collaborated with peers to develop a smart irrigation system based on IoT and Machine Learning to boost farming productivity.
- Collaborated with my team to develop an intruder detection security system based on IoT technology.
- Gained immense practical knowledge and skills in web development, python programming, and project management.

#### Internship

Sept 2022 - Oct 2022

Web Info-net Limited, Wandegaya-Kampala

- Participated in practical network setup, management, and configuration sessions.
- Completed training in computer systems maintenance, troubleshooting, Operating System and software installation

### LANGUAGES

- Luganda - Native
- Runyankole - Native
- English - Proficient in both written and spoken

### REFERENCES

Dr. Edwin Mugume – Carnegie Mellon University-Africa

Assistant Teaching Professor

[emugume@andrew.cmu.edu](mailto:emugume@andrew.cmu.edu)

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Mr. Frank Ssemakula – Netlabs!UG Research Centre

Graduate Research Assistant

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## CERTIFICATES

### **Cisco Certified Support Technician Certificate**

Awarded by Cisco Networking Academy for completing the Junior Cybersecurity Analyst career path

### **Networking and Initial Configuration Certificate**

Awarded by Cisco Networking Academy for course completion.

### **Endpoint Security Certificate**

Awarded online by Cisco Networking Academy for course completion.

Dr. Jonathan Serugunda – Makerere University  
Lecturer, Electrical and Computer Engineering Department  
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## PROJECTS

- Led the design and implementation of a GPT-based inclusive voice assistant for Luganda and English speakers aimed at enhancing information accessibility for individuals with limited text input capabilities in low-resource language communities.  
*Project demo:* <https://bit.ly/4avixvi>
- Collaborated on the development of a smart irrigation system using IoT and Machine learning technology for efficient water optimization, reduced operational costs and crop yield enhancement.  
[https://github.com/NicksonAmwine/Agriwave\\_Smart\\_Irrigation\\_System](https://github.com/NicksonAmwine/Agriwave_Smart_Irrigation_System)
- Developed and deployed a GPT-based Chatbot web application with voice and text interaction options for a seamless user experience.  
<https://github.com/NicksonAmwine/Simple-chatbot-webapp>