

# TREVOR TEBAWESWA

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## EDUCATION

### AI App Development Bootcamp

Kampala, Uganda

*African Talent Academy (Askar Sulaimanov)*

May 2025–September 2025

- Built and deployed AI-powered applications using FastAPI, Docker, Streamlit, LangChain, and LangGraph.
- Designed a food ordering online agent as the capstone project, integrating conversational AI with backend APIs and containerised deployment for real-world functionality.

### Makerere University

Kampala, Uganda

*BS in Electrical Engineering (National Merit Scholarship)*

2022-2025

- CGPA above 4.0 (4.11)

## GLOBAL PROGRAMS & FELLOWSHIPS

### Seeds For The Future (Flagship Talent Development Program)

Shenzhen, China

*Huawei*

July 2025

- Selected for Huawei's global flagship technology leadership program, gaining structured exposure to 5G, AI, cloud computing, and digital infrastructure at enterprise scale.
- Engaged in leadership and entrepreneurship roundtables with senior Huawei executives, gaining insight into technology-driven business decision-making.
- Explored AI agents, hybrid cloud systems, smart cities, renewable energy, and EV technologies, linking system design choices to real-world deployment constraints.

## Certificates

### Coursera

Kampala, Uganda

*John Hopkins University*

July 2024 – August 2024

- HTML, CSS and JavaScript for Web Developers
- Introduction to CSS3

### University Of Cape Town

Cape Town, South Africa

January 2020 – December 2020

- Completion of CSC1016S (Introduction to Java)
- Completion of CSC1017S (Introduction to Python)

## WORK EXPERIENCE

### Sunbird AI

Kampala, Uganda

*MLOps Graduate Trainee*

July 2025 – Current

- Developed a noise classification model using supervised machine learning, up to a percentage accuracy of 81%, which was deployed on Raspberry Pi modules in over 5 noise sensors using edge computing.
- Fine-tuned medical-domain large language models that are to be used for deployment under the HASH project to provide youths in over 5 African countries access to sexual reproductive health through an offline application.
- Improved the factuality response of Sunflower, Uganda's first multilingual large language model, through reinforcement learning by over 15%.

### Kiira Motors Corporation

Jinja, Uganda

*Research Associate I*

March 2025 – July 2025

- Built a charging scheduling algorithm based on a predicted energy consumption model for the

Jinja- Iganga under the E-bus Xpress project to minimise the costs for battery degradation by 33%.

- Developed an energy consumption model using supervised machine learning with an accuracy of 91.73%.

### **Kiira Motors Corporation**

*Undergraduate Intern*

**Nakasongola, Uganda**

*May 2024 – July 2024*

- Contributed to the production of twenty-eight buses through the installation and testing of front and rear powertrain and electrical engineering system components for 7 units of 10.5-meter EV buses, three units of 6.6-meter EV buses, and 3 units of 8.5-meter EV buses.
- This led to thirteen dynamic tests being carried out, during which the buses covered a combined distance of 700 km without any failure of powertrain or electrical engineering systems.
- Demonstrated strong technical aptitude when troubleshooting problems related to the front and rear powertrain and electrical engineering system components of the first 6.6-meter EV bus, which led to a 40% increase in production rate of the 6.6-meter EV buses.

### **Sunbird AI**

*ML Engineer Intern*

**Kampala, Uganda**

*July 2023 – September 2023*

- Developed a language identification model using supervised machine learning up to a percentage accuracy of 99.93% which was implemented into the current machine translation systems.
- Cleaned and uploaded text-to-speech audio data of 5000+ sentences in Acholi and Luganda to Sunbird AI's open-source data servers.

## **VOLUNTEERING**

### **Creative Child Foundation**

*Volunteer*

**Kampala, Uganda**

*November 2024 – January 2025*

- Facilitated over four hours at two secondary schools and one primary school, familiarising over 150 students with OctoStudio, a mobile-based creative coding platform designed for children, and introducing students to coding fundamentals. The children were guided to create projects with the SDGs as themes, such as environmental conservation, quality education, and good health and well-being.

## **PERSONAL PROJECTS**

### **Integrated Smart Systems Group**

*Undergraduate Researcher*

**Kampala, Uganda**

*August 2023 – March 2024*

- Developed a time series model made up of a combination of two time series models (SARIMAX and Holt-Winters' Exponential Smoothing) using supervised machine learning, with a percentage accuracy of 99.955% to forecast long-term electricity demand in Uganda up to 2040.

## **LEADERSHIP EXPERIENCE**

### **Makerere University**

*Class Representative*

**Kampala, Uganda**

*2022– 2025*

- Collaborated with other class representatives at the college to replace blackboards with whiteboards in over 15+ classrooms.

## **SKILLS & INTERESTS**

### **Technical Skills**

- *Programming Languages:* Python, C, C#, C++, R, Java
- Containerization: Docker
- Microsoft Office Suite (Word, Excel, PowerPoint, Access), Google Suite

### **Proficient Languages**

- English, Luganda