

## **OSCAR TAROPAFADZWA MHLANGA**

Harare, Zimbabwe | oscarlance20@gmail.com | GitHub: [github.com/OscarTaro/connectaid.github.io](https://github.com/OscarTaro/connectaid.github.io)

### **Profile**

A motivated Aeronautical Engineering undergraduate with strong full-stack development skills and a passion for applying technical knowledge to education. Eager to leverage proficiency in Python, JavaScript, and systems thinking to inspire young learners as a Robotics & Coding Assistant. Committed to driving STEM innovation in diverse communities.

### **Technical Skills**

Programming Languages: Python (Flask), JavaScript

Web Development: HTML, CSS, SQL Databases

Design & Prototyping: Figma (UI/UX Design)

Core Competencies: Systems Thinking, Problem-Solving, Fast Learning & Adaptability, Team Collaboration

### **Experience**

Front-End & Full-Stack Web Developer – University of Zimbabwe / Personal Projects (Apr 2024 – Present)

- Developed responsive web applications using HTML, CSS, and JavaScript.
- Built full-stack applications with Python Flask and SQL.
- Designed UI/UX wireframes and prototypes with Figma.
- Maintained websites for academic and competition use.
- Collaborated with peers to implement user-friendly interfaces and ensure performance.
- Utilized strong problem-solving skills to debug code and optimize application performance, a skill directly transferable to troubleshooting robotics projects with students.

### **Education**

University of Zimbabwe – Harare, Zimbabwe

BSc Aeronautical Engineering (Undergraduate) | Expected Graduation: 2024

Advanced Level Certificate – Gaza Secondary School, Zimbabwe

Pure Mathematics (A), Physics (A), Chemistry (C) | 14 Points

## **Projects**

**ConnectAid (Full-Stack Web Application)** – Developed a responsive full-stack application using Flask, SQL, and Bootstrap enhanced with a web-based chatbot; involved logical structuring, algorithm design, and translating user needs into a functional system.

**UZ Cafeteria Management System** - Developed a comprehensive desktop application using **PyQt6** and SQLite to manage student meal redemptions, featuring real-time analytics, automated reporting, and a multi-tab interface for dining hall operations.

Connected (Front-End Web App) – Designed and deployed a front-end application with HTML, CSS, and JavaScript.

School Competition Website – Built and maintained a functional website for school competitions.

## **Languages**

Shona (Native), English (C2), Japanese (B1), German (A2)

## **References**

Available upon request.