HENRY AYUB

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EDUCATION

Taita Taveta University

Bachelor of Science in Information Technology; Major in Software Engineering

Relevant Coursework: Data Structures, Algorithms, Web Programming, Object Oriented Programming Languages(OOP), Computation Theory, Database Systems

CERTIFICATIONS

ALX software Engineering   *November 2022 - January 2024*

SKILLS

Languages: Python, JavaScript, HTML/CSS, SQL, C
Technologies/Methodologies: TDD, CI/CD, Tailwind, Bootstrap, Git/GitHub, ReactJS, Django, Flask, Docker, Kubernetes, Redis, Nginx, Terraform, Selenium, Celery Linux Environments

EXPERIENCE

Taita Taveta University *Software Engineer. Intern* | Backend Development Team   July 2024 – April 2025
- **Backend Engineer** in the ICT department
- System Development: Developed and maintained university internal websites using **Django** and **Python**
- Project Management: Led and collaborated on various projects, from initial concept to deployment, ensuring timely and successful completion.
- **Version Control:** Managed code repositories using **GitHub** to track changes and collaborate with team members.
- **Debugging** and **Troubleshooting**: Identified and resolved issues in software applications to maintain system reliability.
- **Continuous Learning**: Engaged in continuous learning to stay updated with the latest technologies and best practices in software engineering.
- Application of **TDD**

PROJECTS

Smart Lab management system **|** *Source Code* | **Django Web Application**
- Developed a **full-stack Django-based** Lab Management System for the School of Science and Informatics at Taita Taveta University to streamline lab equipment tracking, user access, and maintenance logs.
- Designed a scalable **database schema** using **Django ORM** to handle lab assets, check-ins/outs, repairs, and user roles.
- Implemented **role-based access control** (RBAC) for admins, lab assistants, and students, improving system security and accountability.
- Integrated **Tailwind CSS** to build a responsive and user-friendly interface, enhancing accessibility across devices.
- Applied Django's class-based views and signals for efficient CRUD operations and automated status updates.

EduSauti **|** Source Code **|** **AI-Powered Learning Platform**
- Built an AI-powered web platform that converts uploaded academic documents into teacher-like voice summaries.
- Implemented real-time interactive Q&A during audio playback using Django Channels and Azure OpenAI.
- Used Django REST Framework for backend APIs and Tailwind CSS for a modern, responsive frontend.
- Integrated Azure Document Intelligence, Azure Speech Services, and OpenAI to power summarization, text-to-speech & user interaction.

Lecturer Review System **|** *Source Code* **|** *Dynamic Website in Flask*
- Developed a **Flask**-based web application that allows students to review and rate lectures, facilitating improved feedback and teaching quality at Taita Taveta University.
- Implemented a secure user authentication system using Flask-Login, enabling students to log in, post reviews, and view ratings for various lectures.
- Designed and optimized the database schema with **SQLAlchemy** to handle user reviews, ratings, and lecture data efficiently, ensuring fast data retrieval and storage.
- Integrated dynamic content rendering with Jinja2 templates, providing a seamless user experience with real-time updates and feedback display.

LEADERSHIP AND INVOLVEMENTS

Leadership/Organizations: Google Developer Students Club(GDSC) Lead 2024/25, Microsoft Learn Student Ambassador (Gold), ISACA Student Group Taita Taveta University President, SHELEADSTECH Ambassador, Mictec TTU President