HENRY AYUB

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EDUCATION

Taita Taveta University   *September 2022 – April 2026*

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

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 – August 2024
- **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

laptopXplorer, Source Code | Dynamic website in Django
- Developed a custom **Django**-based backend to handle laptop data, including pricing, ratings, and reviews, allowing users to make informed purchasing decisions.
- Implemented a modern, grid-based UI using CSS Grid and Tailwind, providing a visually appealing and user-friendly interface that adapts to various screen sizes.
- Integrated search and sorting features for laptops, improving the site's functionality and user navigation experience.
- Achieved high code maintainability and collaboration by adhering to best practices in version control, documentation, and testing.

Student Management System Source Code | CRUD Application
- **Created a comprehensive student management system using Django**, supporting Create, Read, Update, and Delete (CRUD) operations for student records, courses, and grades.
- **Implemented robust form validation and error handling** to ensure data integrity and prevent user input errors, leading to a more secure and reliable system.
- **Utilized Django's ORM to streamline database operations**, reducing code complexity and improving performance in managing large datasets.

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.
- Enhanced the application's reliability and maintainability by writing unit tests and implementing logging, leading to reduced downtime and easier debugging.

LEADERSHIP AND INVOLVEMENTS

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