PATRICK MWILA

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https://patrickmwila.ictaz.org.zm

TECH ENTHUSIAST, RESEARCHER & TEACHER

I am a technology enthusiast obsessed with automating my workflows. Currently, I work for and provide services to The Information and Communications Technology Association of Zambia (ICTAZ).

PROFESSIONAL EXPERIENCE

- **ICT Innovations & Administrator** - ICT Association of Zambia
  April 2025 - Present
  In this role, I lead efforts to coordinate IT infrastructure, implement tailored solutions, and provide consultancy on technological tools that enhance the efficiency of operations and events. My responsibilities span across system development, cybersecurity, and IT strategy, ensuring innovation and efficiency in every project.
  - Led the development, deployment, and launch of the new ICTAZ membership system.
  - Overseeing the development and deployment of the ICTAZ Event Management System.
  - Facilitated the procurement and maintenance of Linux & Windows Virtual Private Servers.
  - Led the configuration and deployment of the ICTAZ ERP - Dynamics 365 Business Central on Windows Server 2019.
  - Configured and ensured the renewal of SSL certificates for all servers, maintaining the security and integrity of information at all times.
  - Contributed to the drafting of the ICTAZ 2025 - 2028 Strategic Plan, leading the ICT & Innovations department objectives.
  - Set up and configured the 2024 ICTAZ Gala Dinner & Awards nomination and voting platforms.
  - Demonstrated strong communication skills in explaining the security and integrity of the ICTAZ 2024 Gala Dinner & Awards nomination and voting platforms.
  - Designed, developed, and deployed the ICTAZ Smart Zambia Portal, a critical system for collecting and validating KYCs for public service workers affected by deductions as per agreements.
  - Designed, developed, and deployed the ICTAZ SmartHR Overtime and Leave Management System, streamlining overtime tracking and leave management for employees.

- **Acting ICT Innovations & Administrator** - ICT Association of Zambia
  October 2024 - Present
  In this role, I lead efforts to coordinate IT infrastructure, implement tailored solutions, and provide consultancy on technological tools that enhance the efficiency of operations and events. My responsibilities span across system development, cybersecurity, and IT strategy, ensuring innovation and efficiency in every project.
  - Led the development, deployment, and launch of the new ICTAZ membership system.
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- **Management Trainee** - ICT Association of Zambia
  February 2024 - October 2024
  In this role, I played a key part in system development, process automation, and IT infrastructure management. I worked on enhancing internal operations through technology-driven solutions, improving efficiency and security.
  - Set up and configured the first Electronic Voting System used during the ICTAZ April 2024 AGM in Livingstone.
  - Developed a back-office web application (ICTAZ Registration GUI Debugger) to automate registration queries, reducing turnaround time and increasing revenue.
  - Demonstrated advanced debugging techniques by utilizing custom Linux scripts to debug code and update ICTAZ certificate signatures, ensuring data accuracy after prolonged use of outdated information.
  - Generated high-quality membership reports despite the absence of documentation in the old membership system by leveraging advanced data cleaning techniques.
  - Collaborated on the design of the Software Requirements and Specification Document for the ICTAZ Event Management System, contributing to the creation of UML diagrams that outlined key functionalities.
  - Successfully updated and maintained the ICTAZ website, demonstrating expertise in content management systems (CMS).
  - Managed and configured ICTAZ Microsoft 365 accounts for staff across all departments, ensuring seamless access and security.

- **Intern** - ICT Association of Zambia
  January 2024 - February 2024
  In this role, I was exposed to office desk work, from making coffee for my bosses, managing frustrated members, to doing all the manual work I was given—which I eventually automated, because automation is what I do best!
  - Learned and implemented fundamental concepts of customer service, focusing on user-centered delivery.
  - Attended to member queries on a daily basis, developing skills in stress management and effective customer service.
  - Automated error resolution processes during customer registration by writing custom SQL scripts, reducing workload and improving efficiency.
  - Demonstrated Linux server troubleshooting expertise by joining the team during a server downtime. I collaborated with Zamtel's on-site server infrastructure team to install Ubuntu 18.04, update configurations, and restore the ICTAZ Membership System.

- **Student Teacher** - Northmead Secondary School
  February 2024 - April 2024
  As a student teacher, I took on the responsibility of delivering quality education in Computer Studies and Mathematics, ensuring students grasped both theoretical and practical concepts effectively.
  - Taught Computer Studies and Mathematics with a focus on interactive learning.
  - Created schemes of work, records of work, and lesson plans to ensure structured lessons.
  - Assessed student performance and provided necessary guidance.
  - Managed school activities, contributing to a well-organized learning environment.

- **Awarded Paid Student Portal Developer** - The University of Zambia (UNZA)
  July 2023 - October 2023
  Worked closely with a master's student to investigate the feasibility of designing and implementing a national scholarly research portal. My role involved technical research, system analysis, and prototype development to assess viability.

KEY SKILL & TOOLS

Languages

- Python - ⭐ ⭐ ⭐ ⭐
- Java - ⭐ ⭐ ⭐
- JavaScript - ⭐ ⭐ ⭐
- SQL - ⭐ ⭐ ⭐ ⭐

Frameworks & Systems

- Linux - ⭐ ⭐ ⭐ ⭐ ⭐
- Django - ⭐ ⭐ ⭐ ⭐
- Flask - ⭐ ⭐ ⭐ ⭐
- Express.js - ⭐ ⭐ ⭐
- Bootstrap - ⭐ ⭐ ⭐

Databases

- MySQL - ⭐ ⭐ ⭐ ⭐
- MongoDB - ⭐ ⭐ ⭐
- Elasticsearch - ⭐ ⭐

Business Intelligence

- Python - ⭐ ⭐ ⭐ ⭐
- Pandas - ⭐ ⭐ ⭐
- Numpy - ⭐ ⭐ ⭐
- Matplotlib - ⭐ ⭐ ⭐

NOTABLE PROJECTS

My Portfolio Site

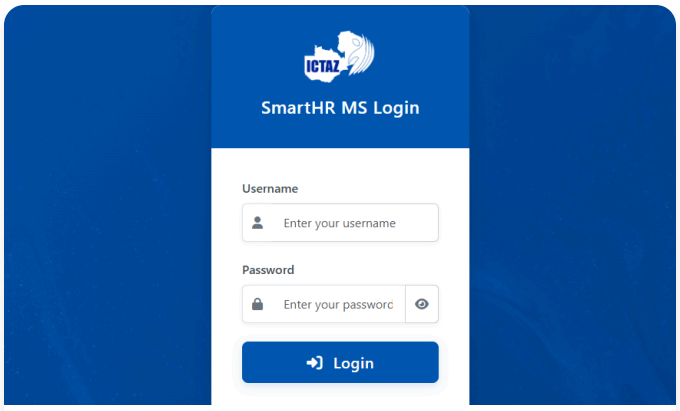
My modern, Flask-based portfolio and blog website designed for professional presentation and content management.

Live Demo Source Code

ICTAZ / SZI Portal

A portal that collects KYC's in readiness to onboard members onto the New ICTAZ Membership System.

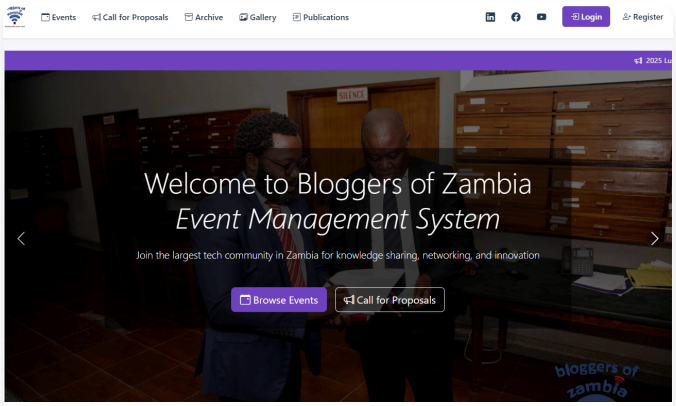
Live Demo



ICTAZ SmartHR

HR system designed to streamline overtime tracking and leave management for employees.

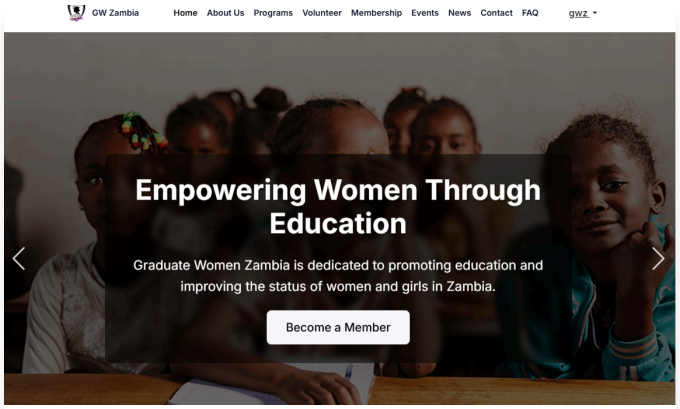
Live Demo



Bloggers of Zambia - Event Management System

Event management system built with Django for managing events.

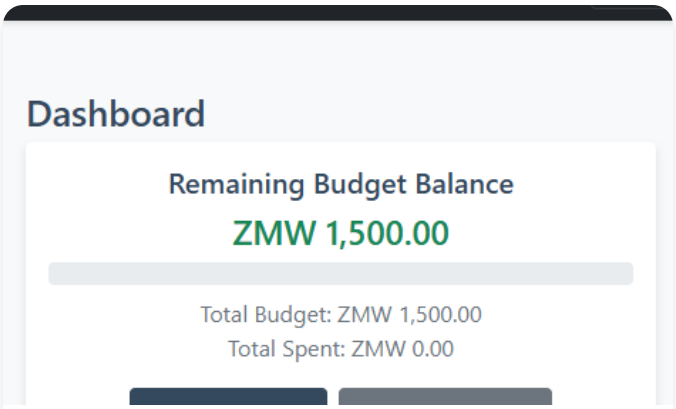
Live Demo



GWZ Website & Membership Portal

A dynamic website for Graduate Women Zambia, built with Django to empower women through education, advocacy, and professional development.

Live Demo



ndineBudgetor

A personal finance tracking web application built with Flask and Bootstrap.

Live Demo Source Code

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- **ICTAZ / SZI Portal** - A portal that collects KYC's in readiness to onboard members onto the New ICTAZ Membership System.
- **ICTAZ SmartHR** - HR system designed to streamline overtime tracking and leave management for employees.
- **Bloggers of Zambia - Event Management System** - Event management system built with Django for managing events.
- **GWZ Website & Membership Portal** - A dynamic website for Graduate Women Zambia, built with Django to empower women through education, advocacy, and professional development.
- **ndineBudgetor** - A personal finance tracking web application built with Flask and Bootstrap.

For detailed project information, live demos, and source code, please visit my portfolio at https://patrickmwila.ictaz.org.zm

EDUCATION

Currently Student @ The University of Zambia
Postgraduate Diploma-NS
Computer Science
2025 - Present

The University of Zambia
Bachelor of Information and Communication Technologies in Education (B.ICTs.Ed)
ICTs with Mathematics
2020 - 2024

Mpongwe Boarding Secondary School
Grade 12 Certificate
2015 - 2017

REFERENCES

Chellah Silavwe
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