
FRIDA WAWUDA MWASARU

CONTACT

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Personal Portfolio:

PROFILE SUMMARY

Versatile and results-driven IT soon to be graduate of this year's August with hands-on experience in web and mobile application development, object-oriented design (OOD), and backend systems. Skilled in Python, Django, RESTful API development, and database management using MySQL and MongoDB. Experienced web developer with a strong foundation in HTML, CSS, JavaScript, and modern frameworks. Proven ability to design and implement innovative solutions, including AI-powered platforms and dynamic service websites. Adept at integrating third-party APIs such as M-Pesa, and passionate about building scalable, user-centric software. Demonstrates strong problem-solving skills, attention to detail, and a continuous drive for professional growth.

EDUCATION

2021 - Expected graduation 2025

MURANG'A UNIVERSITY OF
TECHNOLOGY

- Bachelor of Science in
Information Technology

2020 - 2016

BAHARI GIRLS HIGHSCHOOL

- KCSE CERTIFICATE

WORK EXPERIENCE

NHIF (National Hospital Insurance Fund)

2024

IT Attachment

- Assisted in managing IT systems and troubleshooting networkrelated issues.
 - Gained hands-on experience in database management and cybersecurity best practices.
- Supported software updates and user training on new systems.

CERTIFICATIONS

- Introduction to Cisco Cybersecurity
- Introduction to Cisco Data Science
- Huawei HCIA Certification

SOFT SKILLS

- Problem-Solving 8 Critical Thinking • Team Collaboration
- Adaptability Continuous Learning • Analytical thinking
- Technical writing
- Project coordination
- Team collaboration
- Effective Communication

LANGUAGES

- English: Fluent
- Swahili: Native

PROJECTS

1) AutoTempoHire – AI-Powered Driver Hiring Platform

January 2025 – April 2025

Developed a comprehensive AI-powered ride-hailing and vehicle management system using Django and PostgreSQL. This smart web platform connects car owners with professional drivers through intelligent driver matching and real-time features. It offers tools such as trip tracking, in-app messaging, driver performance analytics, document verification, and secure multi-channel payments (M-Pesa, PayPal, Stripe). Emphasized scalability and real-time performance using Django Channels, Redis, and AWS.

- **Technologies Used:** Django, DRF, PostgreSQL, Django Channels, Redis, HTML/CSS, JavaScript, Bootstrap, Leaflet.js
- **Security & Auth:** JWT, OAuth2, SSL/TLS
- **Payments:** M-Pesa API, Stripe, PayPal
- **DevOps & Deployment:** Docker, Nginx, Gunicorn, AWS, Heroku
- **Testing:** Pytest, Selenium, Django Test Framework
- **Outcome:** Reduced manual processes by 40%, accelerated driver placement by 30%, and improved transparency via verified profiles and real-time updates.

2) MovingPamoja – E-Commerce Platform for Household Moving Services

May 2023 – July 2023

Built a full-stack web application enabling clients to book and pay for household moving services. Integrated real-time pricing, availability tracking, and secure payments. Provided a seamless experience across mobile and desktop platforms.

- **Role:** Full-stack Developer (frontend + backend)
- **Technologies:** Python, Django, MySQL, React, Stripe API
- **Features:** Real-time bookings, user authentication, dynamic pricing, reviews & feedback
- **Challenges Solved:** Integrated geolocation-based pricing and high-volume payment handling
- **Outcome:** Boosted user engagement by 40% and reduced average booking time by 25%

3) Wuda's Bakery – Mobile Ordering Application

March 2024 – May 2024

Developed a cross-platform mobile app to streamline order placement for a bakery. Customers can browse a live product catalog, place orders, and receive order confirmations. Managed backend data flow and real-time order updates.

- **Technologies:** React Native, Firebase/SQLite, Node.js (optional), Figma (UI design)
- **Responsibilities:** UI/UX design, backend integration, testing
- **Outcome:** Simplified digital ordering, reduced wait times, and boosted operational efficiency for a small business

4) React-Based Personal Portfolio Website

April 2025 – Present

Designed and built a modern personal portfolio website to showcase technical skills, certifications, and projects. The site includes responsive design, smooth transitions, SEO optimization, and GitHub/LinkedIn integration.

- **Technologies:** React (v19), Tailwind CSS (v3.4), PostCSS, Netlify/Vercel
- **Features:** Modular components, downloadable CV, project cards, mobile-first layout
- **Outcome:** Increased professional visibility and enhanced recruiter engagement

TECHNICAL SKILLS

Programming & Software Development

- Object-Oriented Programming (Java, C++)
- Web Development (HTML, CSS, JavaScript)
- Mobile Application Development (React Native - basic)
- Client-Server Systems & Architecture
- Artificial Intelligence Concepts & Applications
- Software Engineering Principles
- Distributed Systems

Database & Data Management

- Database Management Systems (DBMS)
- Database Management Systems (SQL basics)
- Programming & Database Integration
- Data Structures & Algorithms
- Decision Support Systems

Web & E-Commerce Technologies

- Web Application Development
- Internet Technology & Web Design
- E-Commerce Platforms & Digital Business Solutions
- Content Management Systems (basic knowledge)

Networking & IT Infrastructure

- Computer Network Fundamentals
- Network Design & Management
- Operating Systems
- Computer Network Practicum

Mathematics & Analytical Tools

- Probability & Statistics (I & II)
- Basic Calculus & Mathematical Reasoning
- Data Interpretation & Problem-Solving

Business & Information Systems

- Management Information Systems (MIS)
- System Analysis & Design
- Accounting Information Systems
- ICT project management

