MUNGU JAKISA MAURICE

COMPUTER SCIENCE STUDENT & SOFTWARE DEVELOPER

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PROFESSIONAL SUMMARY

Computer Science student at Makerere University with hands-on experience in web development, Arduino programming, enterprise server administration, and computer hardware maintenance. Proven ability to work independently and collaboratively on projects emphasizing autonomy, security, and innovation. Successfully completed IT internship at NCR Uganda with focus on Windows Server configuration, Active Directory management, VMware virtualization, and network security. Skilled in TypeScript, computer repair and maintenance, and advanced server configuration. Seeking opportunities to contribute to meaningful technology projects while continuing to grow expertise in software development and system administration.

TECHNICAL SKILLS

Programming Languages

C/C++   JavaScript   TypeScript

PHP   Python   Dart

Web Development

HTML5   CSS3   React   Node.js

NestJS   MySQL   PostgreSQL

Systems Administration

Windows Server   Active Directory

VMware   Ubuntu Server 22.04 LTS

Linux Networking   Docker

Hardware & IoT

Arduino   Raspberry Pi   Blynk IoT

Sensor Integration   IoT

Tools & Technologies

Git   Docker   Linux   SSH

Tailscale   NFS   Cockpit

PROFESSIONAL EXPERIENCE

FULL-STACK DEVELOPER (APPRENTICE)   *June 2025 - Present (8 mos)*
Refactory Academy | Kampala, Central Region, Uganda

Software Development Student
- Currently enrolled in intensive full-stack development apprenticeship program
- Learning and applying modern web development technologies and best practices
- Working on real-world projects with emphasis on full-stack development
- Collaborating with mentors and fellow apprentices on team-based projects
- Developing skills in project management and agile methodologies

Skills: Full-Stack Development · Project Management

IT INTERN   *June 2024 - August 2024*
NCR Uganda | Kampala, Uganda

- Configured and maintained Windows Server 2019 environments and Active Directory Domain Services
- Implemented VMware ESXi virtualization setup with proper resource allocation and network configuration
- Provided technical support for hardware and software troubleshooting across enterprise infrastructure
- Participated in system maintenance procedures, backup implementations, and security hardening
- Gained hands-on experience with enterprise-level IT infrastructure supporting business operations
- Collaborated with senior IT staff on network configuration and user access management

FREELANCE WEB DEVELOPER   *2023 - Present*
Self-Employed | Kampala, Uganda

- Designed and developed responsive websites using HTML5, CSS3, JavaScript, and PHP
- Implemented server-side functionality with database integration and user authentication systems
- Created user-friendly interfaces focused on accessibility, performance optimization, and cross-browser compatibility
- Collaborated with clients to understand requirements and deliver tailored solutions meeting business objectives
- Managed project timelines and client communications for multiple concurrent web development projects

KEY PROJECTS

Travel & Safaris Costing Software | 2025

React, TypeScript, NestJS, PostgreSQL

Professional travel and safaris costing software for tour operators. Features intelligent pricing & markup rule engine, modular itinerary creation, backend priority handling for markups, real-time cost recalculations, and clean, scalable TypeScript architecture designed for real-world tour operations.
Outcome: Production-ready SaaS application for tour operators.

Linux Home Lab Server | 2025

Ubuntu Server 22.04 LTS, Docker, SSH, Tailscale, NFS, Cockpit

Self-hosted infrastructure project using repurposed hardware. Configured static IP server using Netplan, disabled cloud-init network overrides, set up secure remote access using SSH and Tailscale, built NFS file server accessible across devices, managed services headlessly via SSH, added web-based server management using Cockpit, and deployed containerized services using Docker.
Outcome: Production-ready home lab for DevOps practice and self-hosting services.

Full-Stack Web Applications | 2024 - Present

HTML5, CSS3, JavaScript, PHP, MySQL

Developed multiple responsive web applications including personal portfolio website, school management system, and attendance tracking system. Features include user authentication, database integration, responsive design, SEO optimization, and cross-browser compatibility.
Outcome: Several deployed web applications with positive client feedback.

Server Configuration & Virtualization | 2024

Windows Server, Active Directory, VMware ESXi, Cisco Networking

Enterprise server setup including domain controller configuration, Active Directory with organizational unit structure and group policies, VMware virtualization with proper resource allocation and network segmentation, DHCP and DNS configuration, and network security implementation.
Outcome: Enterprise-ready infrastructure supporting organizational IT operations during NCR internship.

Smart Home Control System (Arduino IoT) | 2024

Arduino, C++, Blynk IoT, Sensors, Relay Modules, IoT

Comprehensive home automation prototype focusing on security, access control, and autonomous operation. Integrated multiple sensors (temperature, humidity, motion) with mobile app control via Blynk platform. Implemented energy-efficient design with smart scheduling and automated response systems.
Outcome: Functional IoT prototype demonstrating mobile control and autonomous operation.

recipe_app (Flutter Mobile App) | 2024

Flutter, Dart, Mobile Development

Cross-platform mobile recipe book application with recipe search and filtering, user favorites and bookmarks, offline data storage, and modern UI with animations.

EDUCATION

DIPLOMA IN COMPUTER SCIENCE
2023 - 2026

Makerere University | Kampala, Uganda

Completed comprehensive Computer Science diploma with focus on software development and system administration. Relevant Coursework: Data Structures, Algorithms, Database Systems, Computer Networks, Software Engineering.

NATIONAL CERTIFICATE IN ACCOUNTING AND FINANCE
2019 - 2021

Uganda College of Commerce Pakwach | Pakwach, Uganda

Completed accounting and finance certification with focus on financial management, bookkeeping, and business operations.

LANGUAGES

English Fluent (Written & Verbal)   Alur Native Speaker   Luganda Conversational   Swahili Beginner

ACHIEVEMENTS

Selected for Refactory Academy Apprenticeship
Competitive software development program | 2025

Successful Project Completion
NCR Uganda IT Internship with commendation for technical aptitude | 2024

Travel & Safaris Costing Software
Production-ready SaaS application for tour operators | 2025

REFERENCES

Available upon request - Contact information provided for professional references including:
- NCR Uganda IT Department Supervisor
- Makerere University Academic Advisor
- Freelance Project Clients