

MUNGU JAKISA MAURICE

FULLSTACK SOFTWARE ENGINEER/SYSTEMS ADMINISTRATOR/DEVOPS & CLOUD ENGINEER/COMPUTER & NETWORK ADMINISTRATOR

Kampala, Uganda

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PROFESSIONAL SUMMARY

Fullstack Software Engineer and Systems Administrator with extensive experience designing, developing, and maintaining production-ready software and enterprise IT infrastructure. Skilled in building scalable web applications using React, TypeScript, Django, NestJS, and PostgreSQL, complemented by expertise in network administration, Windows/Linux server management, Active Directory, and virtualization. Proven track record in delivering end-to-end technology solutions across the SDLC, from requirements engineering and system architecture to deployment automation via Docker and CI/CD. Recognized for analytical problem-solving and technical ownership, effectively translating complex business requirements into maintainable, high-value technology products.

CORE COMPETENCIES

- Fullstack software development
- Software Architecture & System Design
- Requirements Engineering
- Frontend Development
- Backend Development
- REST API Development
- Authentication & Authorization (JWT, RBAC)
- Database Design & Optimization
- Cloud Infrastructure & DevOps
- Docker & Containerization
- Linux Server Administration
- Windows Server Administration
- Active Directory Administration
- Computer Maintenance & Repair
- Network Administration & Troubleshooting
- Virtualization Technologies
- CI/CD Pipeline Implementation
- Technical Documentation
- Agile Software Development
- Stakeholder Communication
- Problem Solving & Root Cause Analysis
- Project Management & Technical Leadership

TECHNICAL SKILLS

Programming Languages

JavaScript, TypeScript, Python, PHP, C/C++, Dart, Bash/Shell Scripting

Frontend Development

React.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS

Backend Development

Node.js, NestJS, Django, Django REST Framework, PHP

Databases & Data Management

PostgreSQL, MySQL, Prisma ORM, Database Design, Relational Data Modeling, Query Optimization, Database Administration

DevOps & Cloud Technologies

Docker, Docker Compose, GitHub Actions (CI/CD), DigitalOcean, Linux Administration, Ubuntu Server, Nginx, SSL/TLS Configuration, Production Monitoring, Environment Management

Systems Administration & Networking

Windows Server 2019, Active Directory Domain Services, VMware ESXi, Computer Maintenance & Repair, Hardware Troubleshooting, LAN Administration, TCP/IP Networking, DHCP, DNS, Network Configuration & Troubleshooting, User Access Management, System Backup & Recovery, Printer & Peripheral Management

Development Tools

Git, GitHub, VS Code, XAMPP, Microsoft Office Suite, Postman, Linux Mint

Embedded Systems & IoT

Arduino, Raspberry Pi, Sensor Integration, Blynk IoT, Embedded Systems Development, Control Systems Prototyping

PROFESSIONAL EXPERIENCE

FULLSTACK SOFTWARE ENGINEER (CONTRACT)

Refractory Academy - Kampala, Uganda

June 2026 - Present

Led the design, development, and deployment of the **Refractory Interview Scheduler**, a centralized recruitment coordination and interview management platform developed for the Digital Solutions Expo 2026.

Responsibilities

- Led end-to-end SDLC for the Refractory Interview Scheduler, converting stakeholder requirements into a scalable recruitment platform.
- Engineered an automated scheduling engine with conflict detection and a role-based

architecture (Admin, Employer, Candidate).

- Developed secure RESTful APIs (Django, JWT) and responsive dashboards (React, TypeScript) for interview and profile management.
- Built notification systems and optimized relational database schemas for high-performance event operations.
- Containerized and deployed the MVP using Docker, Nginx, and Linux servers under aggressive event timelines.
- Managed production environments, including HTTPS configuration, environment variables, and stakeholder UAT phases.

Key Achievements

- Successfully delivered and deployed the MVP within a highly constrained event timeline.
- Digitized recruitment coordination processes and significantly reduced scheduling errors and administrative workload.
- Developed a reusable and scalable platform architecture capable of supporting future recruitment events.

Technologies:

React.js, TypeScript, Django, Django REST Framework, PostgreSQL, Docker, Git, GitHub Actions, Linux, Nginx, JWT Authentication, REST APIs, Brevo Email Services

FULLSTACK SOFTWARE DEVELOPER & PROJECT LEAD

SwanAir Travels and Safaris - Kampala, Uganda

2025 - January 2026

Led end-to-end development of a comprehensive travel and safaris costing platform for tour operators.

Responsibilities

- Directed architectural design and database modeling for a travel costing SaaS platform using React, NestJS, and PostgreSQL.
- Developed intelligent pricing engines and drag-and-drop itinerary tools with real-time cost calculations.
- Implemented permission-based access control and secure authentication mechanisms via Prisma ORM.
- Established automated CI/CD pipelines using GitHub Actions for seamless deployment to DigitalOcean.
- Managed Linux server environments and Nginx reverse proxies while collaborating with stakeholders on UX improvements.

Key Achievements

- Delivered a production-ready SaaS platform serving real-world tour operations.
- Built scalable architecture supporting complex pricing and itinerary workflows.
- Implemented secure authentication and authorization mechanisms.

Technologies:

React.js, TypeScript, NestJS, PostgreSQL, Prisma ORM, Docker, GitHub Actions, DigitalOcean, Linux, Nginx

FULLSTACK DEVELOPER (APPRENTICE)

Refractory Academy - Kampala, Uganda

June 2025 - March 2026

- Participated in an intensive software engineering apprenticeship focused on modern full-stack development practices.
- Built and contributed to real-world software projects using modern frontend and backend technologies.
- Collaborated in agile environments and participated in team-based development activities.
- Strengthened software engineering, system design, problem-solving, and project management skills.
- Applied industry best practices in software development, version control, testing, and deployment.

IT INTERN

NCR Uganda (SCI) Services and Computer Industries

Kampala, Uganda

June 2024 - August 2024

Responsibilities

- Maintained and upgraded enterprise hardware, software, and peripherals, resolving complex technical issues for end-users.
- Administered Windows Server environments, Active Directory Domain Services, and user access management.
- Deployed and configured virtual machines using VMware ESXi for infrastructure optimization.
- Supported LAN administration, including IP addressing, connectivity troubleshooting, and network security.
- Executed backup procedures, preventive maintenance, and system hardening initiatives.
- Documented infrastructure inventory and collaborated with senior engineers on enterprise IT operations.

Key Achievements

- Gained practical experience in enterprise systems administration and network infrastructure management.
- Developed hands-on expertise in computer maintenance and repair, server administration, virtualization, and technical support.
- Strengthened analytical thinking, troubleshooting, and professional communication skills.

Technologies:

Windows Server 2019, Active Directory Domain Services, VMware ESXi, TCP/IP Networking, DHCP, DNS, Windows Operating Systems, LAN Administration, Computer Hardware Maintenance & Repair

FREELANCE WEB DEVELOPER

Self employed - Kampala, Uganda
2023 - Present

- Designed and developed custom, responsive websites using HTML5, CSS3, JavaScript, PHP, and MySQL.
- Engineered secure backend functionality, including authentication, authorization, and database integration.
- Managed the full project lifecycle for diverse clients, focusing on performance, accessibility, and tailored business value.

KEY PROJECTS**REFACTORY INTERVIEW SCHEDULER**

Client: Refactory Academy - Digital Solutions Expo 2026

Role: Fullstack Software Developer & Deployment Engineer

Developed a centralized recruitment platform with automated scheduling and live operations support.

Technologies: React, TypeScript, Django, PostgreSQL, Docker, Nginx, JWT, Brevo.

Outcome:

Delivered a production ready platform that eliminated manual scheduling bottlenecks and improved operational efficiency.

SWANAIR TRAVEL & SAFARIS COSTING SOFTWARE

Role: Fullstack Developer & Project Lead

Created a SaaS platform for tour operators featuring intelligent pricing and modular itinerary management.

Technologies: React, TypeScript, NestJS, PostgreSQL, Prisma, Docker, DigitalOcean.

Outcome:

Delivered a scalable production ready SaaS application supporting real world tour operations.

LINUX HOME LAB SERVER

Role: Systems Administrator & DevOps Engineer

Built a self-hosted DevOps infrastructure for service hosting and Linux administration practice.

Technologies: Ubuntu Server, Docker, SSH, Tailscale, NFS, Cockpit.

Outcome:

Established a production-ready home lab environment for DevOps practice, self-hosting services, and Linux administration.

STUDENT ATTENDANCE MANAGEMENT SYSTEM

Role: Fullstack Developer

Developed a web-based attendance system demonstrating full-stack engineering and database principles.

Technologies: PHP, MySQL, JavaScript, HTML, CSS.

Outcome:

Delivered a functional information management system demonstrating software engineering and database management principles.

SMART HOME CONTROL SYSTEM

Role: IoT Developer

Prototyped an IoT automation system with sensor integration and remote mobile control.

Technologies: Arduino, C++, Blynk IoT, Relay Modules.

Outcome:

Delivered a functional IoT prototype demonstrating automation and remote control capabilities.

EDUCATION

Diploma in Computer Science

Makerere University Business School (MUBS)

Kampala, Uganda

2023 - 2026

Relevant Coursework:

- Software Engineering
- Database Systems
- Computer Networks
- Information Systems Development
- Web Development
- Computer Systems & Architecture
- Embedded Systems Development

National Certificate in Accounting and Finance

Uganda College of Commerce

Pakwach, Uganda

2019 - 2021

Relevant Areas:

- Financial Management
- Bookkeeping
- Business Operations
- Professional Ethics and Accountability

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Refactory Academy Full-Stack Software Development Apprenticeship
- National Certificate in Accounting and Finance(UBTEB)
- Kubernetes Cloud Native Essentials(Linux Foundation)

PROFESSIONAL STRENGTHS

- Technical ownership and accountability with a systems-thinking mindset.
- Advanced troubleshooting and root cause analysis across software and hardware.
- Effective cross-functional communicator bridging technical and non-technical stakeholders.
- Adaptable lifelong learner committed to clean, scalable, and maintainable code.
- Proven ability to deliver production-ready solutions under tight deadlines.

LANGUAGES

English - Fluent

Alur - Native

Luganda - Conversational

Swahili - Beginner

AVAILABILITY

Open to fulltime, contract, hybrid, and remote opportunities.

REFERENCES

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