

NATHAN MICHIRA GESORA

IT Administrator • Full-Stack Software Developer

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PROFESSIONAL SUMMARY

IT Administrator and Full-Stack Software Developer with experience designing, developing, and maintaining enterprise applications and IT infrastructure. Skilled in Java, Spring Boot, React, TypeScript, PostgreSQL, Docker, Windows and Linux administration, networking, and technical support. Proven ability to develop secure business solutions, administrator enterprise systems, troubleshoot complex technical issues, and deliver scalable software that improves operational efficiency.

TECHNICAL SKILLS

Programming Languages: Java, TypeScript, JavaScript, SQL.

Frameworks & Libraries: Spring Boot, React, React Native, Tailwind CSS.

Databases: PostgreSQL, MySQL.

DevOps & Tools: Docker, Git, GitHub, Maven, Postman.

Operating Systems: Windows, Linux (Ubuntu, Debian).

Networking & Infrastructure: TCP/IP, LAN/WAN, Routers, Switches, VPNs, Network Troubleshooting.

IT Administration: Active Directory, User Account Management, Systems Backups, Hardware & Software Support, Printer Configuration, Biometric Systems.

Development Practices: REST APIs, Database Design, System Integration, Troubleshooting.

PROFESSIONAL EXPERIENCE

Better-Link Ventures Limited

2023 – Present

IT Administrator & Software Developer

- Recruited to improve the organization's record-keeping process, initially tasked with developing an Excel-based solution for manual operations.
- Identified the limitations of spreadsheet-based record management and proposed the development of a custom SACCO Management System, which was approved by management.
- Led the design, development, testing, deployment and ongoing enhancements of the SACCO Management System, successfully transitioning the organization from paper-based records to a centralized digital platform.
- Develop and maintain full-stack enterprise applications using Java, Spring Boot, React, TypeScript, PostgreSQL, and RESTful APIs.
- Design and implement new system modules, troubleshoot application issues and continuously improve system functionality based on operational requirements.
- Administer PostgreSQL databases, including performance optimization, backup, recovery, and data integrity management.
- Deploy, configure, and maintain applications and services using Docker in Linux environments ensuring system reliability and availability.
- Configure and troubleshoot network infrastructure, including routers, switches, VPN connectivity, and office networking equipment.
- Provide technical support to end users by installing, configuring, and troubleshooting hardware, software, printers, biometric devices, and email accounts.
- Conduct user training and provide technical guidance to ensure effective and secure use of organizational systems.

TECHNICAL PROJECTS

Secure SACCO Management System

Java • Spring Boot • React • TypeScript • PostgreSQL • Docker

- Architected and developed a full-stack SACCO Management System from the ground up to digitize and automate the organization's financial and administrative operations.
- Implemented comprehensive member management, savings, loan processing, guarantor management, and asset management modules.
- Designed a double – entry accounting system featuring a General Ledger, Chart of Accounts, Journal Entries, and financial reporting capabilities.
- Integrated M-Pesa and Cooperative Bank payment services to support secure digital transactions and automated payment processing.
- Built a secure authentication and authorization framework with Role –Based Access Control (RBAC), user management, audit logging, and document management.
- Developed comprehensive reporting capabilities to provide operational and financial insights for management.
- Designed RESTful APIs and responsive web interface using Spring Boot, React, and TypeScript, backed by PostgreSQL.
- Designed, developed and deployed the SACCO Management System on a self – hosted Linux server, reducing infrastructure costs while maintaining full control over the deployment environment.

Home Server & Self-hosted Infrastructure

Debian Linux • Docker • Docker compose • Nginx • Portainer • SSH • Uptime Kuma

- Designed and deployed a self – hosted server environment using Debian Linux on dedicated hardware.
- Configured Docker and Docker Compose to deploy and manage containerized services.
- Deployed and administered Portainer for centralized Docker container management.
- Configured Nginx as a reverse proxy and web server to host the organization's SACCO Management System, which in return reduced the hosting cost.
- Implemented SSH – based remote administration and Linux server management.
- Deployed Uptime Kuma to monitor the availability and health of hosted services.
- Managed Linux networking, storage, and system administration while troubleshooting infrastructure issues.

EDUCATION

Nairobi Technical Training Institute

2020 – 2023

Diploma in Information Communication Technology (ICT)

CORE COMPETENCIES

- Full – Stack Software Development.
- Enterprise Application Development.
- IT Infrastructure Administration.
- Database Design & Management.
- Network Administration.
- System Integration.
- Technical Support & Troubleshooting.
- Business Process Automation.
- RESTful API Development.
- Software Development & Maintenance.