PAUL MAINA NGARUIYA

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PROFESSIONAL SUMMARY

Detail-oriented **Full-Stack Software Engineer & IT Systems Specialist** with **2+ years of professional experience** designing, deploying, and maintaining secure, scalable applications and infrastructure for **SMEs**. Strong expertise in **Python (Flask/Django)**, **React**, **SQL databases**, and **Linux systems**, with hands-on experience in **automation, cybersecurity fundamentals, and database administration**. Proven ability to deliver end-to-end solutions, optimize performance, and ensure system reliability in production environments.

TECHNICAL SKILLS

Programming & Scripting

Python, JavaScript, **PHP (basic)**, Bash, SQL, C, C++

Frameworks & Libraries

Flask, Django, React, Node.js, **Laravel (basic)**

Databases

MySQL, PostgreSQL, SQLite
 (Design, migrations, optimization, backup & restore)

Systems & Infrastructure

Linux & Windows servers, system configuration, virtualization basics, system imaging, performance monitoring, disaster recovery

Security & Networking

Secure coding practices, vulnerability assessment, penetration testing basics, Wireshark, firewalls, encryption, TryHackMe, CTFs

DevOps & Tools

Git, GitHub, Docker (basic), CI/CD basics, Bash automation

Development Practices

REST APIs, authentication & authorization, Agile/Scrum, documentation, debugging, code reviews

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PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer — Dukatech Solutions (SMEs)

Nairobi / Remote
 Jan 2025 – Present

- Design, develop, and deploy **end-to-end web applications** tailored for SME operations.

- Build scalable backend services using **Flask/Django** and RESTful APIs.

- Develop responsive frontends using **React, HTML, CSS, and JavaScript**.

- Design and manage **MySQL & PostgreSQL** databases ensuring data integrity and performance.

- Implement authentication, authorization, and secure data handling.

- Collaborate directly with clients to gather requirements and deliver business-focused solutions.

- Maintain, optimize, and enhance existing systems to improve uptime and usability.

Freelance IT Systems & Full-Stack Engineer — Remote

Jan 2023 – Dec 2024

- Installed, configured, and maintained **Linux and Windows servers**.

- Deployed and administered **MySQL & PostgreSQL** database servers.

- Designed and delivered **10+ full-stack applications** using Flask/Django and SQL databases.

- Automated server maintenance and backup tasks using **Python and Bash**, reducing downtime by **50%**.

- Performed database backups, performance monitoring, and query optimization.

- Conducted vulnerability assessments and implemented security controls.

- Supported SME clients in system reliability, data protection, and performance optimization.

Web Development Trainer — Code Yetu, Nairobi

2024 – Present

- Trained **20+ students** in backend development, databases, and deployment.

- Guided learners on hosting, version control (**Git/GitHub**), and data persistence.

- Provided mentorship on debugging, API integration, and performance optimization.

- Improved learner success through hands-on, project-based training.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Bachelor of Science in Information Technology — **Graduated 2025**

- Focus areas: Software Engineering, Systems Administration, Cybersecurity

- Participated in **NASA Space Apps Challenge** and university hackathons

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CERTIFICATIONS

- ALX Software Engineering Program

- IBM Cybersecurity Basics

- Cisco Cybersecurity Essentials

- Cisco Ethical Hacker

PERSONAL PROJECTS

Puddle — Django Web Application

Inventory management dashboard with authentication and SQLite backend
🔗 https://github.com/mainangaruiya/PUDDLE

WhatsApp Sticker Bot (Python)

Automated sticker creation using image and caption commands
🔗 https://github.com/mainangaruiya/sticker_bot

AI-Integrated WhatsApp Bot

Real-time chat automation using **Gemini AI**
🔗 https://github.com/mainangaruiya/Whatsappbot

SOFT SKILLS

- Strong analytical and troubleshooting skills

- Excellent teamwork and communication

- Detail-oriented with focus on reliability and uptime

- Fast learner and adaptable to new technologies

- Effective time management and ownership mindset

- Customer-focused problem solving

REFEREES

Asha Panyako — Founder, Code Yetu
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John Maina — Lecturer, JKUAT
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