

Gatungo Simon Wanyoike

Information Technology Specialist/ Full Stack Developer

simongatungo300@gmail.com

linkedin.com/in/simongatungo

0757568845

SUMMARY

A results-driven Full Stack Web Developer and final-year BSc. Information Technology student at the University of Embu with a passion for building practical, impactful digital solutions. Experienced in developing secure, scalable systems from backend services to intuitive frontends. Strong grasp of modern development stacks (Python, Django, Flutter, JavaScript, React), cloud infrastructure (Azure), AI integration, and system administration. Skilled in translating user needs into production-ready applications. Committed to lifelong learning and leveraging technology to empower communities and industries in Africa.

EDUCATION

University OF Embu

2021 – Expected September 2025

BSc in Information Technology

Eduleka

Full Stack Web Development

Power Learn Project

Cross-Platform App Development using Flutter & Dart

SKILLS

Technical Skills (Hard Skills)

- **System Administration:** Proficient in installing, configuring, and maintaining Windows and Linux operating systems. Experienced in managing server rooms, handling user

account provisioning, applying system security updates, and ensuring infrastructure reliability.

- **Network Administration:** Skilled in LAN/WAN setup and diagnostics, firewall and router configuration, bandwidth management, and coordinating with ISPs to optimize network uptime and performance.
- **ICT User Support:** Strong background in end-user support, resolving hardware and software issues, managing helpdesk operations, and enhancing user experience through responsive ICT assistance.
- **Full Stack Software Development:**
 - **Frontend:** React.js, React Native, Flutter, HTML5, CSS3, JavaScript
 - **Backend:** Django (Python), Node.js (basic), PHP (basic)
 - Experienced in building responsive web/mobile applications, RESTful API integration, and developing user-friendly UI/UX interfaces.
- **Database Management:** Skilled in designing, implementing, and managing databases using MySQL, PostgreSQL, and SQLite. Proficient in database modeling, optimization, and backup strategies.
- **Machine Learning & Data Science:** Hands-on with data preprocessing, exploratory analysis, and basic predictive modeling using tools like Pandas, NumPy, Scikit-learn, and TensorFlow. Currently advancing skills through practical AI projects.
- **Cybersecurity Awareness:** Solid understanding of digital hygiene, basic threat detection, user education, vulnerability mitigation, and cybersecurity protocols in institutional settings.
- **Cloud Computing & DevOps:**
 - Familiar with Microsoft Azure Virtual Machines, Google Cloud, and Firebase.
 - Working knowledge of Docker containerization and Git/GitHub for version control and CI/CD integration.
- **Odoo ERP Systems:** Proficient in customizing and deploying Odoo for business process automation. Experienced with modules including Website, CRM, eCommerce, Inventory, and Accounting. Capable of building professional-grade websites using Odoo Website Builder.

- **ICT Project Management:** Knowledgeable in Software Development Life Cycle (SDLC), Agile methodologies, project scoping, sprint planning, and using tools like Trello, Jira, and Notion for team collaboration and documentation.
- **Digital Marketing:** Skilled in promoting business visibility through digital channels, including social media marketing, online brand positioning, content creation, and basic SEO. Proficient in onboarding small enterprises to digital platforms, managing digital campaigns, and using analytics tools to track engagement and performance.

Professional Competencies (Soft Skills)

- Problem Solving & Critical Thinking
- Strong Verbal and Written Communication
- Adaptability & Flexibility in Dynamic Environments
- Team Collaboration & Leadership Potential
- Attention to Detail & Organizational Efficiency
- Time Management & Multitasking
- Customer Service Orientation
- Creativity & Innovation
- Emotional Intelligence & Conflict Resolution

PROFESSIONAL EXPERIENCE

IT Intern (Industrial Attachment)

Kenya Rural Roads Authority (KeRRA), Murang'a

May 2024 – August 2024

During my industrial attachment at KeRRA, I played a pivotal role in supporting and enhancing the organization's IT infrastructure. I collaborated with the ICT team to ensure seamless

operations, troubleshoot system issues, and implement solutions that improved service delivery and internal efficiency.

Key Contributions & Achievements:

- **Enhanced Visitor Experience:** Segmented the internal network to create a secure and dedicated visitor Wi-Fi, significantly improving visitor satisfaction and reducing idle time.
- **Ensured Network Stability:** Diagnosed and resolved recurring network outages, leading to consistent **24/7 internet uptime**, which improved operational continuity across departments.
- **Boosted Device Reliability:** Conducted preventive maintenance and hardware upgrades on staff computers, reducing system crashes by over **60%**, thereby increasing staff productivity.
- **Optimized Network Performance:** Fine-tuned network settings and configurations to achieve **up to 40% faster internet speeds**, encouraging more staff to work from the office.
- **Accelerated Issue Resolution:** Streamlined communication with Internet Service Providers (ISPs), cutting average downtime resolution by **more than 50%**.
- **Promoted Cyber Awareness:** Trained staff on cybersecurity best practices, enhancing the organization's digital security posture and reducing vulnerability to threats.
- **Reduced Operational Costs:** Provided proactive technical support and maintenance, significantly decreasing reliance on external IT vendors.

PROJECTS

Hospital Management System

Designed and implemented a full-featured Hospital Management System to streamline operations in healthcare facilities.

- **Features:** Patient registration, appointment scheduling, billing, medical records management, and reporting.
- **Impact:** Improved efficiency in healthcare workflows and reduced paperwork by centralizing hospital operations into one platform.
- **Tech Stack:** Django (Python), HTML/CSS, JavaScript, PostgreSQL

Online Voting System

Built a secure and user-friendly online voting platform used by the GEMA community at the University of Embu.

- **Features:** Voter authentication, real-time results dashboard, audit trails, and anonymized voting.
- **Impact:** Enabled transparent, tamper-proof elections and increased voter turnout by allowing remote participation.
- **Tech Stack:** Django, HTML/CSS/JS, PostgreSQL

E-Learning System with Augmented Reality *(In Progress)*

Currently developing an innovative e-learning platform that integrates Augmented Reality (AR) to enhance higher education through immersive, interactive learning experiences.

- **Planned Features:**
 - AR-powered virtual classrooms with real-time 3D content interaction
 - Holographic teaching aids and simulations
 - Lecturer controls for starting live or scheduled pre-recorded classes
 - Student interaction tools including Q&A, voice-to-text, and AR notes
- **Objectives:** Improve learner engagement, simplify complex topics through visualization, and bridge the gap between physical labs and virtual learning.

- **Tech Stack:** Django (backend), Flutter (mobile/web frontend), Unity3D, ARCore, Firebase, PostgreSQL

Face recognition Attendance System

Created a facial recognition-based attendance system for students and employees.

- **Features:** Real-time face detection and recognition, automatic attendance logging, admin and user dashboards.
- **Impact:** Reduced time wastage and eliminated buddy-punching through biometric verification.
- **Tech Stack:** Python, OpenCV, Django, SQLite

ADDITIONAL INFORMATION

- Active Member of the Kenya Model United Nations (KMUN), enhancing my skills in strategic leadership, diplomatic negotiation, and global policy analysis—essential competencies that complement my expertise in technology development, ICT project management, and digital governance.
- Awarded Honorary Recognition by the International Law Commission for distinguished contribution to the discourse on the treatment of foreign investors under international law.
- Successfully served as Election Chairperson for the GEMA community at the University of Embu, overseeing the secure management of electoral processes through digital systems and championing transparency and cybersecurity in student governance.
- Dedicated to environmental sustainability through participation in university-led tree-planting programs and urban cleaning initiatives in Embu town, demonstrating a

commitment to integrating technology-driven solutions with sustainable development goals (SDGs).

- Passionate about promoting the ethical application of technology in governance, investment protection, environmental conservation, and community empowerment, with a strong focus on innovation, resilience, and social impact.

LANGUAGES

English (Fluent), Kiswahili (Fluent), Kikuyu (Native)

INTERESTS

- Project Development: Enjoys tackling new challenges and working on projects that involve innovative tech solutions.
- Creative Arts: Passionate about acting, dancing, and music creation, with a particular interest in how technology intersects with creativity.
- E-Learning Innovations: Interested in exploring new ways that technology can improve learning experiences and accessibility.
- Collaborative Work: Thrives in environments where teamwork and knowledge sharing drive growth and innovation.
- Technology for Problem Solving: Always excited about applying technology to address real-world challenges and create impactful solutions.

REFEREES

Mr. Augustine Limo

Lecturer at the University of Embu

+254 711943206

limo.augustine@embuni.ac.ke

Dr Consolata Gakii

Lecturer at the University of Embu

gakii.consolata@embuni.ac.ke

Eliud Wanyoike

Reverend at St. John Kihuruini

+254 741 561 797

eliwamu2012@gmail.com

Simon Kuria

Private Teacher

+254 797 248 89

kuriasimon835@gmail.com