

Dennis Githinji Gacheru

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Summary

Detail-oriented Software Engineer with strong experience in workflow automation, API integrations, SQL based backend logic, and system documentation. Skilled at translating business requirements into functional digital solutions, building forms, validating data, and supporting end to end process improvements across diverse systems.

Hands-on experience developing structured workflows, optimizing user journeys, troubleshooting system issues, and supporting UAT within Agile environments.

Passionate about continuous learning, digital transformation, process automation and leveraging emerging technologies to deliver innovative, business-driven solutions that accelerate digital transformation, improve efficiency and enhance organizational impact.

Professional Experience

Software Engineer, Fiverr (Freelance)

(January 2023 to date)

- Designed and implemented web/mobile applications with structured workflows, form handling, backend logic, and third-party API integrations for global clients.
- Built automated data-processing scripts that reduced manual effort by 40%.
- Developed dashboards and reporting modules for clients using MySQL queries and backend scripting.
- Implemented secure CI/CD pipelines and performed server-side automation using AWS EC2 and S3.
- Designed and implemented web and mobile applications leveraging Java, Python (Flask), and MySQL.
- Integrated third-party APIs, including AI-driven chatbots, REST APIs, and cloud-based services.
- Designed and deployed cloud-hosted applications using AWS while ensuring proper documentation and version control.
- Collaborated with international clients through Agile workflows, providing progress updates and incorporating feedback.

Software Developer, Equicell (Contract)

(November 2024 to December 2024)

- Automated internal workflows such as appointment processing, patient intake, and approval flows using PHP, Python and MySQL-based backend logic.
- Integrated REST APIs for SMS, payment, authentication, and communication services across multiple systems.
- Enhanced system performance by optimizing SQL queries and redesigning database structures.
- Collaborated with product and operations teams to convert process requirements into functional automated modules.

- Supported UAT cycles, issue tracking, and post deployment enhancements for live systems.
- Created documentation including workflows, sequence diagrams, and technical specifications for new modules.
- Implemented access rules, permission logic, and user level workflows for system modules.

IT Support Technician (Intern), Nairobi Women's Hospital

(May 2024 to October 2024)

- Performed preventive maintenance and troubleshooting for core ICT systems and end-user workstations.
- Resolved daily technical issues for staff and escalated major incidents appropriately.
- Monitored network performance, conducted infrastructure reviews, and identified optimization opportunities.
- Strengthened communication, teamwork, and problem-solving skills essential for collaborative software development environments.
- Documented technical issues, resolutions, and hardware inventory, improving knowledge sharing and reducing repetitive troubleshooting requests.
- Assisted in configuring and maintaining system software, security patches, and network devices to ensure high system availability.

Key Strengths

- Strong grounding in Software Development.
- Excellent teamwork, communication, and documentation.
- Fast learner with strong analytical and problem-solving abilities.
- Committed to continuous growth and emerging technologies.
- Detail-oriented, self-driven, and adaptable in collaborative environments.

Education



Bachelor's degree in Computer Science

The Catholic University of Eastern Africa



09/2021 -08/2025



Nairobi, Kenya

Certification

AWS Cloud Practitioner (2025)

Comprehensive certification from AWS Skill Builder, demonstrating a strong foundation in AWS Cloud concepts, global infrastructure, pricing models, and shared responsibility principles.

Showcases cloud fluency and the ability to articulate the AWS value proposition effectively.

Certification in Cyber Security (in progress)

Currently pursuing an immersive, hands-on program with TryHackMe, focusing on ethical hacking, penetration testing, vulnerability management, and real-world cybersecurity operations. Reinforced practical expertise through guided technical labs and scenario-based exercises.

CORE TECHNICAL SKILLS

- Cloud Platforms: AWS, Azure, IBM.
- Cloud Security: Encryption, Authentication.
- Full-Stack Web & App Development: HTML/CSS, JavaScript, Python, PHP, Visual Studio (C#), Bootstrap.
- Software Debugging & Troubleshooting.
- Form Design & Rules Logic (HTML, JS).
- API Design & Integration.
- Data Structures & Algorithms.
- Networking: TCP/IP, DNS, Routing
- Protocols, Monitoring & Threat Mitigation.
- Linux/Unix Systems, Shell Scripting
- Database Design: MySQL, PostgreSQL, SQL Server, Firebase.
- Continuous Integration/Continuous Deployment (CI/CD).
- Project Deployment & Maintenance.
- Backend Logic Development (PHP, Python, Node basics)
- Workflow Automation & Process
- Software Development Methodologies: Agile, Scrum, DevOps.

Projects

Doctor Appointment Management System, Technologies: PHP · MySQL · JavaScript · HTML5 · CSS3

- Developed a full-stack web application that streamlines doctor appointment scheduling and management. (<https://equicellmedicalservices.com/>)
- The system features patient registration, automated appointment confirmations via email and SMS, and role-based authentication for doctors, patients, and administrators.
- Designed a comprehensive admin dashboard for monitoring appointments, managing doctor schedules, and ensuring smooth clinic operations.
- This project reflects strong backend logic, database design, and UI/UX considerations for real-world healthcare workflow automation.

Personal Portfolio Website, Technologies: Python · JavaScript · AWS S3 · EC2 · Route 53

- Designed and developed a personal portfolio website to showcase technical expertise, certifications, and live projects. (<https://dennisgithinji.tech/>)
- Built with Flask for backend routing and deployed on Amazon Web Services (AWS) using an EC2 instance for hosting, S3 bucket for static file storage, and Route 53 for custom domain management.
- Integrated HTTPS with AWS Certificate Manager for enhanced security and ensured scalability and high availability through cloud-native deployment.
- The project reflects hands-on experience with AWS infrastructure, DevOps deployment pipelines, and cloud-based web hosting.