

# George Gathogo Gikuma

## Software Developer

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GitHub: <https://github.com/GathogoG>

Portfolio website: <https://gathogog.github.io/george-gathogo/>

## Professional Summary

Highly motivated and innovative Software Developer with a robust foundation in full-stack development and a growing specialization in cloud computing. Adept at building dynamic and scalable web applications with expertise in JavaScript, HTML, CSS, React, Python, SQL, and Flask. Proven ability to develop efficient APIs, manage databases, and collaborate throughout the software development lifecycle. Currently studying AWS cloud services with a focus on core technologies such as EC2, S3, Lambda, RDS, and CloudFormation, aiming to build a solid foundation in cloud-based infrastructure, deployment strategies, and scalable architecture.

## Professional Experience

### Freelance Software Engineer

January 2025 – present

- Designed and developed interactive and responsive web applications using React, Flask, and SQL, improving user engagement and system efficiency.
- Engineered robust and secure RESTful APIs, facilitating seamless data flow between front-end and back-end services.

Optimized database performance and ensured data integrity by designing well-structured schemas and writing efficient SQL queries.

. Implemented CI/CD pipelines, reducing deployment time and enhancing software reliability.

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Nairobi, Kenya •

October 2024 – December 2024

- Participated in the end-to-end development of educational software, contributing to both front-end and back-end tasks using Python, Flask, and React.

- Collaborated in code reviews and quality assurance processes, increasing code efficiency and reducing bugs by 30%.
- Worked closely with cross-functional teams to address technical requirements and deliver user-centric solutions.
- Enhanced system performance by developing new features and optimizing existing code for better scalability and maintainability.

## Technical Skills

- Programming Languages & Frameworks: JavaScript, HTML, CSS, React, Python, Flask, SQL.
- Software Engineering Principles: Object-Oriented Programming (OOP), Test-Driven Development (TDD), Agile & Scrum, Version Control (Git)
- API Development: RESTful APIs, CRUD Operations, Authentication & Authorization (OAuth, JWT)

**Databases: PostgreSQL, MySQL, SQLite.**

- Frontend Development: Responsive Web Design, State Management, Component-Based Architecture.
- Backend Development: API Design, CRUD Operations, Authentication & Authorization (OAuth, JWT).
- Version Control & Collaboration: Git, GitHub, Code Reviews, Pair Programming .

## Projects & Achievements

- Full-Stack Web Application – Built a fully responsive application with React and Flask, integrating dynamic user interfaces and efficient backend operations. Achieved 20% faster load times and improved user engagement through optimized state management and API performance.
- Database Management System – Designed and deployed a PostgreSQL-based system, reducing query response times and ensuring data consistency
- Secure API Development – Created scalable RESTful APIs with robust authentication and authorization, streamlining client-server interactions.
- CI/CD Implementation – Automated deployment processes using GitHub Actions, reducing production deployment time by 50%.

## Education

## **Moringa School – Full-Stack Software Engineering**

- Gained hands-on experience developing high-performance applications using modern frameworks and best practices.
- Acquired hands-on experience in building high-performance applications, following industry best practices and using modern frameworks.
- Developed scalable web applications, implemented efficient database designs, and wrote secure and maintainable code.
- Built high-performance web applications with React, Flask, and SQL, implementing best practices in clean code and modular design.
- Contributed to collaborative projects, gaining practical experience with Agile methodologies, code reviews, and pair programming.
- Delivered capstone projects demonstrating expertise in full-stack development and problem-solving skills.

## **ALX Africa Foundations – Software Engineering**

- Gained foundational knowledge in software development methodologies, collaborative coding practices, and version control.
- Developed a strong foundation in software engineering principles, data structures, and algorithms.
- Mastered collaborative coding techniques, including version control (Git) and code documentation.
- Worked on real-world projects, building essential teamwork and problem-solving abilities.

## **Soft Skills**

- Analytical Problem-Solving & Critical Thinking
- Effective Communication & Team Collaboration
- Adaptability & Continuous Learning

- Time Management & Organizational Skills
- Innovation & Creative Solutions