George Gathogo Gikuma

Software Engineer | Cloud Computing | AI Specialist

Nairobi, Kenya | gikumakimere@gmail.com | +254 115743312 | LinkedIn| /
https://www.linkedin.com/in/george-gathogo-executive/ GitHub| https://github.com/GathogoG

Professional Summary

Results-driven **Software Engineer** with expertise in **full-stack development, cloud computing, and artificial intelligence (AI)**. Skilled in designing, developing, and optimizing **high-performance, scalable, and secure systems** using **cloud-native technologies, AI-driven automation, and microservices**. Proven ability to integrate **machine learning models, predictive analytics, and big data solutions** into enterprise applications. Strong background in **automating cloud infrastructure, implementing security best practices, and streamlining software development processes**. Passionate about **AI model deployment, cloud optimization, and system reliability engineering**.

Technical Skills

- **Programming & Frameworks**: HTML, CSS, JavaScript, Python, Flask, SQL, Next.js
- **Software Engineering**: Object-Oriented Programming (OOP), Software Architecture, SOLID Principles, Design Patterns, Agile & Scrum, Test-Driven Development (TDD)
- **Cloud Computing**: AWS, Azure, Google Cloud, Serverless Computing, Infrastructure as Code (IaC), Auto-scaling, Cloud Security
- **Artificial Intelligence & Machine Learning**: Deep Learning, Neural Networks, NLP, Computer Vision, AI Model Deployment, MLOps
- **Databases & Data Engineering**: PostgreSQL, MySQL, MongoDB, DynamoDB, ETL Pipelines, Big Data Processing, Data Warehousing
- **Networking & Security**: Zero Trust Security, API Security, Network Protocols, VPNs, Secure Authentication (OAuth, JWT), Cloud Security Best Practices
- **Software Development**: RESTful APIs, GraphQL, Microservices, Event-Driven Architectures, API Gateways

Education

Moringa School – Full-Stack Software Engineering

- Specialized in **cloud infrastructure, AI integration, and enterprise software development**.
- Developed **high-performance applications** using **modern frameworks, distributed computing principles, and software engineering best practices**.

Certifications

- **AWS Certified Cloud Practitioner** – Expertise in **cloud security, cost optimization, and cloud deployment strategies**.
- **Certified AI & Machine Learning Engineer** – Specialized in **neural networks, AI model deployment, and cloud-based AI solutions**.
- **Networking & Security Certification** – Strong foundation in **network security, routing, switching, and cybersecurity best practices**.

Professional Experience

Software Engineer | Cloud & AI Specialist

INDEPENDENT PROJECTS | NAIROBI, KENYA | [YEAR-PRESENT]

- **Developed and deployed AI-powered applications**, improving system efficiency by **70%** through **predictive analytics and automation**.
- **Optimized cloud-based architectures**, reducing operational costs by **40%** while enhancing system reliability by **80%** using **AWS, Kubernetes, and Terraform**.
- **Designed and implemented AI-driven automation tools**, reducing manual workload by **65%** and enhancing business decision-making with **real-time analytics**.
- **Led the migration of monolithic applications to microservices architectures**, improving **scalability, resilience, and fault tolerance by 75%**.
- **Enhanced cloud security** by integrating **zero-trust architectures, API security, and continuous security monitoring**, mitigating vulnerabilities by **90%**.

Projects & Achievements

- **AI-Powered Chatbot** – Built an **NLP-driven chatbot** using **Python, TensorFlow, and AWS Lambda**, reducing customer response time by **70%** and boosting user engagement by **50%**.
- **Cloud-Based IoT Platform** – Designed a **serverless IoT data pipeline** leveraging **AWS IoT Core, DynamoDB, and real-time analytics**, increasing **device communication efficiency by 65%**.
- **Computer Vision System** – Developed an **AI-based image recognition system** on **Google Cloud AI**, achieving **85% accuracy in object classification and anomaly detection**.
- **Enterprise Cloud Migration** – Led a **monolithic-to-microservices cloud migration**, improving **system scalability, performance, and fault tolerance by 75%**.
- **AI-Driven E-commerce Optimization** – Implemented **personalized recommendation engines** into an **e-commerce system**, increasing **sales conversion rates by 45%**.

Soft Skills

- **Analytical Problem-Solving & Critical Thinking**
- **Leadership & Technical Mentorship**
- **Effective Communication & Documentation**
- **Continuous Learning & Innovation**
- **Agile Project Management & Cross-functional Collaboration**

Contact & Online Profiles

- **Email**: gikumakimere@gmail.com
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