



Alan Mugambi

Software Engineer | Backend Developer | AI & Fintech Enthusiast

Nairobi, Kenya

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Professional Summary

Results-driven Software Engineer with hands-on experience building scalable backend systems, RESTful APIs, and fintech integrations. Skilled in Python, Node.js, database management, authentication systems, and AI-focused data workflows. Passionate about developing secure, production-ready applications and leveraging machine learning to solve real-world problems. Strong foundation in cloud deployment, DevOps practices, and software architecture.

Technical Skills

Programming & Frameworks

- Python (Django, Flask)
- JavaScript / Node.js
- RESTful API Development

AI & Machine Learning

- Predictive Modeling
- Data Preprocessing (Pandas, NumPy)
- Supervised Learning (Scikit-learn)
- Model Evaluation & Submission Pipelines

Databases

- PostgreSQL
- MySQL
- Firebase Realtime Database
- Firestore

Cloud & DevOps

- Git & GitHub
- CI/CD Pipelines
- Vercel Deployment
- Environment Variable Management

- ngrok

Other Skills

- Authentication Systems (JWT/OAuth)
 - Webhooks
 - Fintech Integrations (M-Pesa Daraja, STK Push)
 - UI/UX Design
 - Critical Thinking
 - Decision Making
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Professional Experience

Full Stack Software Engineer

Freelance | Nairobi, Kenya

Jan 2025 – Present

- Developed scalable backend systems and RESTful APIs using Python and Node.js.
 - Integrated secure fintech payment workflows using M-Pesa Daraja API and STK Push.
 - Implemented JWT and OAuth authentication systems for secure user access.
 - Built machine learning workflows for predictive modeling and data preprocessing.
 - Managed cloud deployments, CI/CD pipelines, and environment configurations.
 - Designed and maintained databases using PostgreSQL, MySQL, Firebase, and Firestore.
 - Collaborated on rapid prototyping and production-ready application deployments.
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Education

Bachelor of Science in Software Engineering

Multimedia University of Kenya, Nairobi

Sep 2025 – Sep 2029

- GPA: 3.8 / 4.0 (First Class Honors)
 - Top 5% in Data Structures and Advanced Mathematics
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Certifications & Courses

Data Science Program

University of Tokyo

Jan 2026 – Dec 2026

Projects

AI & Fintech Backend Systems

- Built secure API-driven systems for authentication, payment processing, and automation.
 - Developed model-ready data pipelines for AI experimentation and evaluation.
 - Implemented scalable cloud deployment workflows for production applications.
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Additional Information

- Strong interest in Artificial Intelligence, Backend Engineering, and Cloud Technologies.
- Open to internships, collaborations, and software engineering opportunities.