

Margaret Gathoni

SUMMARY

Results-driven Full Stack & Data Systems Developer with 6+ years of experience in software engineering, analytics, and cloud-native AI systems across healthcare and enterprise environments. Proven record in Python/FastAPI, Power BI, and LLMOps—bridging backend engineering with data visualization and model deployment. Skilled in Kubernetes orchestration, CI/CD automation, Power BI dashboards, and cross-platform data integration from SQL, cloud, and API sources. Passionate about transforming raw data into secure, actionable intelligence.

EXPERIENCE

NorthStart Systems, Tech Lead

Oct 2025 - Present

- Led technical architecture, product delivery, and DevOps in a fast-paced startup.
- Directed full-stack development using FastAPI, React, and PostgreSQL, delivering the MVP in 12 weeks.
- Managed a team of 8 developers, conducting code reviews and enforcing agile workflows.
- Built CI/CD pipelines with Docker & GitHub Actions; achieved 99.9% system uptime.
- Designed secure RBAC & JWT/OAuth2 authentication for 150+ users.
- Integrated third-party APIs, cutting manual data work by 60%.
- Improved performance by 70% via async processing & query optimization.

CIHEB Kenya, HMIS Specialist

Mar 2025 - Sep 2025

- Integrated KenyaEMR, DHIS2, and AIMS systems using Flask/FastAPI APIs, automating 80% of reporting.
- Designed optimized PostgreSQL schemas across 15+ healthcare facilities.
- Delivered training to 200+ users on data and system use.
- Deployed and monitored Ubuntu servers with automated logging and alerts.

CIHEB Kenya, Data Lead

Jul 2024 - Feb 2025

- Administered PostgreSQL & Oracle databases with 99.8% uptime.
- Strengthened API security using JWT/OAuth; conducted quarterly audits.
- Streamlined backup, monitoring, and disaster recovery processes.
- Authored system documentation and coding standards for lab informatics teams.

Jay & Oak Ltd, Python Developer

Jul 2023 - Jun 2024

- Built Django REST & Flask APIs with data validation, authentication, and integration logic.
- Developed responsive web apps consuming APIs for real-time synchronization.
- Managed deployment pipelines using Docker & Git, improving delivery speed by 50%.

Ornac Ltd, Systems Analyst

Jan 2022 - Jun 2023

- Designed multi-database integrations across MySQL, SQL Server, and PostgreSQL.
- Delivered SME automation tools reducing manual reporting by 75%.
- Provided end-to-end full-stack solutions and client support for ongoing optimization.

Aga Khan University Hospital, Research Data Analyst

Jul 2016 - Dec 2021

- Built ETL pipelines in Python to process >100K records, cutting turnaround by 80%.
- Integrated lab data APIs with clinical systems ensuring full audit compliance.
- Supported 200+ users, resolving system-level and data pipeline issues.

EDUCATION

University of East London

MSc Data Science • 2025 - Present

Liverpool John Moores University

MBA (Strategic Management) • 2024 - 2025

Mount Kenya University

BSc Health Sciences • 2015 - Present

LICENSES & CERTIFICATIONS

AWS Certified Cloud Practitioner

Issued 2025

Full Stack Development

Moringa School • Issued 2023

Data Science Certification

Moringa School • Issued 2020