

Masinde Mtesigwa

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DATA & AI ENGINEER · AI AGENTS & AI ENGINEERING

I build cloud native data platforms and production AI that turn data into decisions. My focus: the intersection of data engineering, AI engineering, and developer enablement—reliable pipelines, measurable ML, and AI agents that help teams move faster.

Keywords / ATS: Python, SQL, PySpark, Databricks, Delta Lake, Medallion, Azure (ADLS, ADF, AML, Azure OpenAI, Synapse), AWS (S3, Glue, SageMaker), Snowflake, dbt, Airflow, MLflow, FastAPI, React, LangChain, Vector DBs, RAG, AI Agents, GitHub Actions, Azure DevOps, Terraform, Docker, Kubernetes, Power BI, GDPR, Responsible AI

EXPERIENCE

SISUIQ — CEO & Founder / Principal Data & AI Engineer

Espoo, Finland · 2025–Present

- Founded SISUIQ and lead product & AI strategy while staying hands on across platform and app delivery.
- Designed a **lakehouse** on Azure Databricks + ADLS with **Delta/Medallion** powering analytics and ML.
- Built **ETL/ELT** (ADF + Databricks Jobs + PySpark/SQL) with contracts, tests, and cost/perf monitoring.
- Shipped **GenAI/RAG services** (FastAPI + Azure/OpenAI + embeddings) with guardrails, observability, and model versioning (**MLflow**).
- Drove **AI assisted engineering** rollout (Cursor, Claude Code, Copilot): prompt libraries, context packs, office hours & playbooks.

DevOsme — Data Engineer / ML Engineer

Helsinki, Finland · – Apr 2025

- Productionized PySpark transformations and SQL marts on **Databricks**; automated orchestration with **Airflow/ADF**.
- Packaged models with **MLflow**, exposed via **FastAPI**; added monitoring for latency/freshness/drift proxies.
- Contributed to **Snowflake** ELT patterns, role based security, and shared dimensions/facts for BI.

MFII — Founder / Software & Data Engineer (part time)

Finland · 2024–Present

- Delivered AI powered MVPs and **AI agents**; set up CI/CD, IaC (**Terraform**), and secure secrets (**Key Vault**).
- Coached teams on **AI native workflows** and built starter kits (repo templates, PR automation, semantic search over repos).

SELECTED PROJECTS

- **Audio!Text GenAI Service** — AssemblyAI, LangChain, Hugging Face, ChromaDB, Azure/OpenAI, FastAPI
Transcription + RAG with citations; shipped as a secure microservice; telemetry & rollback paths.
- **RAG + Knowledge Graph for Domain Q&A** — Qdrant + Neo4j + FastAPI
Vector + graph retrieval with guardrails and observability; accelerates discovery and support.
- **Clinical Prediction & Data Marts** — Databricks/SageMaker, PyTorch/sklearn, Power BI
Feature pipelines, explainability, validation splits; Gold marts aligned to KPIs.
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- ****Medication & Appointments App (MVP)**** — React Native + Firebase
Patient facing app with RBAC, audit trails, privacy controls.
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SKILLS MATRIX

Cloud & Data: Azure (ADLS, ADF, AML, Databricks), AWS (S3, Glue, Lambda, SageMaker), Snowflake

Pipelines & Modeling: PySpark/SQL, Delta Lake, Medallion, dbt, streaming (Event Hubs/Kafka/Kinesis), MERGE/upserts

AI & Agents: Azure/OpenAI/Anthropic, LangChain, embeddings/vector DBs, RAG, function/tool calling, evaluation harnesses

Apps & APIs: FastAPI/Flask, REST/GraphQL, React/React Native

MLOps & DevOps: MLflow/Registry, Azure ML endpoints/AKS, GitHub Actions/Azure DevOps, Docker, Kubernetes, Terraform

Quality & Governance: Great Expectations, data contracts, lineage, GDPR, model cards, auditability

BI: Power BI, Tableau, Looker

SPEAKING & COMMUNITY

- Office hours, hack days, and short ****playbooks**** on AI assisted engineering (Cursor/Claude Code/Copilot).
 - One week ****AI crash course**** for non technical audiences (6×45 min sessions).
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EDUCATION

- Master of Computer Science — Åbo Akademi University, 2020
 - Bachelor of Engineering (Computer) — Metropolia UAS, 2016
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CERTIFICATIONS (SELECTED)

Udacity — AI for Healthcare · Microsoft Azure (Data/AI) · AWS Machine Learning · Generative AI · Natural Language Processing

LANGUAGES

English — Fluent · Finnish — Working proficiency

FINNISH (BRIEF)

CEO & Founder, SISUIQ, ja Data & AI -insinööri, joka rakentaa pilvipohjaisia data alustoja ja tuotantokelpoisia tekoälysovelluksia ja agentteja. Vahvuudet: Delta/Medallion arkkitehtuuri, MLOps (MLflow, AML/AKS), RAG ratkaisut ja AI avusteinen kehitys (Cursor/Claude Code/Copilot).