


Profiles

 Patrick Gichini

 Kanataki-zwei

Summary

Experienced Data Engineer with over **10 years** of expertise in **ETL/ELT pipeline orchestration, enterprise data warehousing, and big data processing**. Proven ability to design and deploy **scalable data architectures** for businesses in **finance, healthcare, manufacturing, education, and retail**. Adept at integrating **machine learning workflows** with data pipelines to drive automation and analytics.

Education

Multimedia University

Bsc Computer Science

2013 - 2014

Studies Paused

Skills

ETL/ELT & Data Pipelines

Python, Airflow, Prefect, DBT, Airbyte

Cloud DataWarehousing

Google BQ, PostgreSQL

Big Data Processing

Spark

Programming

Python, R, SQL, Bash

Infrastructure

AWS, GCP, Terraform, Docker

Business Intelligence

Looker Studio, PowerBI, Tableau

Data Governance

GDPR, SOC2

Quality Monitoring, Great Expectations

Machine Learning

SparkML


Regression, Unsupervised Clustering, NLP, MLOPs

Certifications

Google Project Management Specialization

Google

Dec 2024


 [Certificate Link](#)

Data Engineering, Big Data, and Machine

Learning on GCP

Google


January 2024

 [Certificate Link](#)

Practical Decision-Making Using No-code ML on AWS

AWS

February 2023

 [Certificate Link](#)

Oracle Certified Associate

Institute of Advanced Technology

2017

Languages

Swahili

Native

English

Native

German

Elementary (A2)

Spanish

Beginner (A1)

Patrick Gichini Waruingi

Data & Analytics Engineer | Cloud & ETL Specialist | Machine Learning

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Experience

Wowzi Technologies Inc

Oct 2022 - Present

Data Lead & Sr Data Scientist

Nairobi, KE

- Leading a team of 3 technical data experts (Data Engineers, BI Developer).
- Designing cloud ELT pipelines processing millions of rows of data from across multiple data sources.
- Optimised query performance on Google BigQuery reducing processing time and cloud costs by 30%.
- Designing and building data product services to power in-house product features (Leveraging generative AI technologies).
- Implemented automated data quality checks and monitoring reducing pipeline failures by 25%.
- Building and managing automated business analytics platform for C-Level, internal and external consumers.
- Led SOC2 Type 2 & GDPR compliance implementation.

Iconia Technologies Ltd

Sept 2017 - Aug 2022

Tech Lead | Sr Data Engineer

Nairobi, KE

- Led a team of data and software engineers providing technical guidance and ensuring project execution met technical requirements.
- Built enterprise data warehouses for multi industry clients to power advance analytics. (Both Cloud & On Premise).
- Designed and implemented enterprise BI ecosystems (proprietary and open source) for diverse clients in finance, health, manufacturing, education, and retail.
- Built and automated data processing (ETL & ELT) for semi-structured data, integrating millions of rows from diverse sources through efficient data pipelines
- Built and automated alerts using Email, Teams, Chats, and WhatsApp. E.g. Automated stockout alerts that reduced stockouts by 65%. These automated alerts also achieved a 50% reduction in data analyst request workload.
- Built C-Level BI platforms to power high level decision making with insights across areas such as Revenue, Targets Projections Vs Actuals, Debt & Collections,Supply Chain & Logistics, Operational Efficiency & Compliance.
- Leveraged machine learning by deploying demand prediction models to optimise inventory management (85% accuracy improvement).
- Built customer-product clustering models to personalise marketing outreach (30% uplift) for banking and fintech clients.

Learning Lions

Sep 2016 - Feb 2017

Sysadmin | ICT Trainer

Lodwar, KE

- Managed IT systems for our remote learning institution based in Northern Kenya.
- Lead ICT trainer in training and mentoring youth and equipping them with skills in software development, design, system administration, network engineering, business.

Tunapanda Institute

Sep 2015 - March 2017

Network Eng | ICT Trainer

Nairobi, KE

- Managed IT systems and networks for our learning institution in Kibera, Kenya's biggest slum.
- Trained and mentored youth equipping them with skills in software development, system administration, network engineering, and business.

Projects

Data Governance (Wowzi Technologies)

Spearheaded GDPR & Soc2 Type 2 Compliance at Wowzi

Demand Prediction (Iconia Technologies)

Built a demand prediction model for a multinational manufacturing client to calculate required inventory to feed demand as well as required raw materials based on product BoM