

# TIMOTHY NDUATI

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## SUMMARY

Analytical and detail-oriented Computer Science student with hands-on experience in data engineering, ETL workflows, and backend development. Skilled in SQL, Python, Java, and data visualization tools. Passionate about designing efficient, scalable data pipelines and solutions that enable data-driven decision-making. Seeking to contribute as a Data Engineer, leveraging strong technical foundations and a problem-solving mindset to build AI-native, enterprise-scale systems.

## EDUCATION

**Bachelor of Science in Computer Science** | St. Paul's University, Limuru, Kenya

*Expected Graduation:* November 2025

Relevant Coursework: Data Warehousing, Software Engineering, Database Systems, Cloud Computing, Data Structures & Algorithms.

Grade: Second Class Upper

## TECHNICAL SKILLS

- Programming:** Python, Java, C#, Node.js
- Data Engineering:** SQL, ETL, Oracle Data Integrator (Basics), Power BI, Microsoft Fabric
- Frameworks:** Spring Boot, .NET Core, Flask
- Databases:** Oracle, PostgreSQL, MySQL, MSSQL, MongoDB
- Cloud & DevOps:** Docker, Azure, Git, CI/CD (GitHub Actions)
- Data Tools:** Pandas, NumPy, DAX, Power Query, Excel (Advanced)
- Other:** API Development, Data Modeling, Data Governance Principles

## PROJECTS

### 1. Education Data Integration System

Developed an ETL workflow to consolidate educational datasets from multiple regions for analytics and reporting within the Ministry of Education. Improved data quality and accessibility across departments.

*Technologies:* Python, SQL, Power BI, Azure, Docker

### 2. Real-Time Weather Data Pipeline

Built and containerized an API that collects, cleans, and stores weather data in real-time. Designed the data ingestion process for performance and fault tolerance.

*Technologies:* Node.js, MongoDB, Docker, Azure

### 3. Climate Impact Data Model

Designed a predictive pipeline that analyzes climate data to forecast agricultural output under different environmental conditions. Focused on feature engineering and data transformation.

*Technologies:* Python (Pandas, Scikit-learn), SQL, TensorFlow

## EXPERIENCE

### Software Engineer Intern | Ministry of Education (ICT Department)

*Jan 2025 – August 2025*

- Maintained and optimized education data systems supporting national reporting processes.
- Designed and executed SQL queries to generate insights for departmental decision-making.
- Contributed to the documentation of data management and quality assurance procedures.
- Collaborated with cross-functional ICT teams to improve data accessibility and reliability.

## CERTIFICATIONS

- Databricks Lakehouse Fundamentals (2025)
- IBM Data Fundamentals (2025)
- Microsoft Data Science Associate (2023)
- Udacity: AI Programming with Python (2023)
- Databricks: Getting Started with Data Engineering (2025)