

Hamza Sentongo

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Tampere, Hervanta, Finland

Professional Summary

Associate Data Engineer with hands-on experience building ETL/ELT pipelines and distributed data processing workflows using PySpark, SQL, and Python (Pandas, NumPy). Currently completing a Master's in Computer Science and Electrical Engineering, with practical exposure to Databricks, Delta Lake, and Azure cloud storage, plus certification coursework in software testing fundamentals. Comfortable with Git-based workflows and eager to grow into cloud data warehousing and MLOps practices alongside senior engineers.

Core Skills

- **Programming:** Python (Pandas, NumPy), Java, SQL, Git
- **Data Engineering:** Apache Spark (PySpark), Spark Structured Streaming, Data modeling, ETL/ELT, Data warehousing, Delta Lake, Parquet, Airflow, Databricks
- **Cloud:** Azure Blob Storage (data ingestion into Databricks)
- **Tools & Ecosystem:** dbt, Docker, PostgreSQL, MySQL, IBM DB2
- **Testing & Quality:** Unit testing fundamentals (pytest/unittest)

Projects

Delta Data Formats

Built PySpark pipelines in Databricks to benchmark CSV, Parquet, and Delta Lake, evaluating storage footprint, performance, and schema evolution behavior to guide robust format selection for evolving datasets. Ingested source CSV data from Azure Blob Storage into Databricks notebooks as part of the pipeline.

Spark ML and Streaming (PySpark)

Built a Databricks-style PySpark notebook combining structured streaming with machine learning, trained and evaluated a linear regression model, then applied it to analyze retail sales using both static and streaming data sources.

Web Scrapping

A small ETL project that extracts the top banks by market capitalization from a public webpage, transforms market-cap values into GBP, EUR, and INR using a provided exchange-rate CSV, and loads results to a CSV file and an SQLite database.

Work Experience

React Developer (Freelance)

Jan 2025 – Jul 2025

KhadonTechSolutions Online Store

- Developed and maintained web applications using React, JavaScript, HTML, and CSS.
- Collaborated with clients to deliver customized solutions for delivery of digital products.
- Applied Git workflows and documentation practices that support reproducible development.

Education

Master's in Computer Science

2025

Tampere University, Finland

- Relevant coursework: Artificial Intelligence, Data Intensive Programming (Spark, Databricks)

Bachelor of Information Systems and Technology

2023

Makerere University

- Coursework: System Analysis and Design, Web Systems and Technologies, Integrative Programming and Technologies, Intelligent Systems, Database Systems

Certifications

- **Associate Data Engineer** – DataCamp

June 2026

Credential ID: DEA0017475188313

Coursework covered Python (NumPy), SQL, and unit testing fundamentals.