

Gali Madar Senior Data Engineer

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Professional Summary

Senior Data Engineer with 7+ years of experience in designing large-scale ETL/ELT pipelines. Expert in **Python (Pandas, NumPy)** and **SQL**, with a proven record of optimizing processes from **3 hours to 3 minutes**. Specialized in leading technical teams, **Medallion Architecture**, and managing mission-critical data environments including **Cloudera (Impala)**, **Vertica**, and **SQL Server**

Core Technologies

Languages: Python (Pandas, NumPy), SQL.

Data Tools: Talend, Dataiku, Impala.

Big Data & Storage: Cloudera, Vertica, SQL Server, PostgreSQL.

Professional Experience

Israel Tax Authority | Senior Data Engineer | 2024–Present

Technical Leadership: Leading a team of data engineers, providing technical guidance, task planning, and ensuring high code quality.

Architecture & Modeling: Designing and maintaining Medallion Architecture (Gold Layer), including the development of complex Star Schema (DIM/FACT) tables to support organizational analytics.

Performance Optimization: Engineered high-efficiency ELT processes in Vertica using delta-loading mechanisms, successfully reducing process runtime from 3 hours to 3 minutes.

Data Pipelines: Designing and maintaining large-scale, mission-critical ETL pipelines in Talend over SQL Server and PostgreSQL.

Ministry of Health (via Matrix) | Data Engineer | 2020–2024

Python Automation: Developed end-to-end Python-based automation for extracting and processing large datasets for public-facing reporting.

Big Data Integration: Designed and implemented ETL flows from relational databases to Cloudera, utilizing Impala for efficient querying and handling delta transformations.

Research Data Management: Prepared and optimized datasets for medical research under strict regulatory and security requirements.

ETL Development: Extensive development in Talend, focusing on extraction, delta handling, and complex data validation.

Jerusalem Transportation Master Plan | Data Engineer | 2018–2019

Developed Python-based data processing and analysis pipelines for research datasets.

Education

Computer Science Studies, The Open University of (Completed core courses in Data Structures and Algorithms).

Microsoft .NET Professional Course, Ness College.

Languages|Hebrew: Native|**English:** High Proficiency.