Roey **Aharonov**

roey132@gmail.com | +972 58-7386157 | linkedin

Creative and hardworking Data Engineer with several years of experience in building data solutions. A motivated, dedicated co-worker with fast learning skills that manages under high pressure in solo and team projects. Passionate about programming and game development.

Professional Experience

Data Engineer
Bank Hapoalim

Aug 2024 - Jan 2025
Tel Aviv - IL

- Led E2E Data Lake operations on on-prem servers with Python and PySpark.
- Created advanced Python modules to read, update, and overwrite Parquet files based on dynamic parameters and constraints.
- Developed robust, reusable ETL pipelines for seamless data migration within the Data Lake using SQL and PySpark.
- Maintained and updated a Python SDK to support new features for the company projects.
- Designed Python classes to efficiently retrieve critical data from the Data Lake for various modules.
- Managed and maintained CI/CD pipelines using Jenkins for streamlined deployment and integration.

Pyspark   Python   DataLake   Jenkins   CI/CD   ETL

Data Engineer
MatrixDnA

Jul 2022 - Jul 2024
Tel Aviv - IL

- Led and executed E2E data solutions across diverse industries and cloud environments (AWS, Azure) and on-premise setups.
- Designed and deployed new DWH structures in SQL (Oracle, MSSQL, PostgreSQL) and Python.
- Developed ETL pipelines with Spark, Glue, Lambda, S3, Athena and Azure Data Factory, Databricks, MSSQL, Azure Storage.
- Performed data normalization for BI systems and DWH using PySpark and Pandas.
- Migrated legacy Python scripts and pipelines to cloud environments (AWS, Azure).
- Architected ETL pipelines for Delta Lakes, integrating multiple data sources (Azure Delta Lake, Oracle, SQL Server).
- Built SQL procedures for ETL processes in MSSQL.
- Managed batch data migration pipelines in Azure Databricks using PySpark and Spark.

AWS   Azure   DeltaLake   DataBricks   ETL   Python

Data Engineer
IDF

Nov 2019 - Jun 2022
Ramat Gan - IL

- Provided data insights and managed end-to-end projects from architecture to development.
- Developed BI dashboards in Python (Plotly Dash).
- Standardized data structures for accessible BI usage across military systems.
- Designed and built Data-Warehouses for multiple BI teams
- Built direct query dashboards with APIs for advanced visualizations.

Python   SQL   BI Dashboards   HTML/CSS

Projects

Real-Time Sensor Data Streaming with Kafka and Elasticsearch

- Developed a Python module that reads sensor data and streams it to a Kafka topic.
- Used Kafka Streams to process the data and Elasticsearch to store it.
- Consumed the data into a web application showing real-time visualizations.

Python   Kafka   Elasticsearch   Kafka Streams   Web Application

Rust-based Database API

- Managed DB migrations using Diesel CLI.
- Implemented a REST API with Actix-Web to manage the DB.
- Created a basic frontend in Svelte to interact with the API for testing.

Rust   Diesel   Actix-Web   Svelte

Skills

Tech Stack	Python (Pandas/Pyspark) | SQL | Cloud (AWS/Azure) | ETL & Data Pipelines
Extra Skills	HTML / CSS / JavaScript | C# | Unity
Hobbies	Cooking | Gaming | Game-Development