

Omar Baher

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EDUCATION

University of Waterloo | Waterloo, ON

Aug. 2022

Bachelor of Mathematics in Computational Mathematics, Statistic Minor

- **Courses:** Databases, Data Structures, Algorithms, Object-Oriented Programming, Linear Regression, Stochastics

TECHNICAL SKILLS

Languages: Python (Pandas, pytest, PySpark, pydantic, requests), SQL (T-SQL, Spark SQL), Scala, Bash/Shell

Tools and Frameworks: Git, Apache Spark, Delta Lake, Unity Catalog, Azure (Databricks, Data Factory, Synapse, ADLS Gen2, SQL MI), Power BI, Tabular Editor, dbt

RELEVANT EXPERIENCE

Manulife Investment Management | Toronto, ON

Dec. 2022 - Present

Senior Data Solutions Engineer

- Owned the end-to-end modernization of legacy on-prem data systems into a cloud-native analytics platform, designing and delivering production pipelines using **Databricks, ADF, ADLS** (Delta Lake), **Azure SQL MI**, and **Python** (PySpark, pandas) to support scalable, analytics-ready data products.
- Built a high-performance operational analytics product consumed by senior leadership, modelling tens of millions of records, using **medallion architecture**, partitioned **semantic models**, and optimized refresh strategies to deliver low-latency, reliable insights.
- Re-architected the enterprise data quality platform in the cloud, improving observability and reliability while reducing infrastructure and processing costs by ~\$30K/year through optimized storage and compute patterns.

Innovation, Science and Economic Development Canada | Remote

Sep. 2021 - Apr. 2022

Associate Data Scientist

- Developed an **ML-based** automation tool in **Python** to generate patent landscape maps, leading to a **36% cost reduction** by eliminating third-party dependencies.
- Implemented **NLP techniques** (word embeddings, text vectorization) to enhance text preprocessing and classification.

Government of Ontario | Remote

Jan 2021 - Apr. 2021

Data Science Developer Intern

- Developed **Power BI** prototypes to enhance data visualization strategies and reporting for analytics teams.
- Built a **Python**-based text-processing pipeline to extract key insights from citizen feedback, supporting data-driven decision-making.
- Assisted in developing a **logistic regression** model to predict project approval outcomes, improving resource allocation strategies.

LEADERSHIP EXPERIENCE

ScrubHouse Inc. | Toronto, ON

May 2024 - Present

President

- Oversee end-to-end operations for an owner-operated services business, including service delivery, pricing, scheduling, and quality control, alongside full-time role.
- Lead client acquisition, pitching services to prospective clients and converting leads into recurring engagements.