

VRAJ SHAH

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Professional Summary

Data-driven analyst with expertise in SQL, Power BI, Tableau, Python, and Excel for data visualization and business intelligence. Proven ability to analyze complex datasets, create insightful dashboards, and enhance decision-making processes. Adept at data cleaning, transformation, and reporting to support process improvements and strategic business goals. Currently pursuing a Master of Applied Computer Science at Dalhousie University with a focus on data analytics and warehousing.

Technical Skills

Data Analysis & Visualization: Power BI, Tableau, Excel (Pivot Tables, VLOOKUP, Data Merging)

Programming & Scripting: SQL, Python (Pandas, NumPy), FastAPI, Kotlin

Databases & ETL: PostgreSQL, MySQL, SQL Server, Data Cleaning, Transformation

Cloud & DevOps: Azure (Databricks, Synapse), AWS, Docker, GitHub Actions

Soft skills: Problem solving, Strong business and personal communication, Excellent writing skills, Excellent organizational skills, Self-starter, Teamwork, Adaptability, Attention to detail, Critical thinking, Time management, Quick learner

Work Experience

Simform Solutions

Dec 2021 - Nov 2023

Software Engineer

Ahmedabad, India

- Spearheaded the development of ETL pipelines** using Python (Pandas) and SQL to efficiently process and transform large datasets, **enhancing data ingestion speed by 40%**.
- Designed and deployed interactive Power BI dashboards** that provided actionable business intelligence insights, **reducing manual reporting efforts by 60%**.
- Conducted data integrity checks** and automated validation processes, **leading to a 35% reduction in data inconsistencies and errors**.
- Optimized complex SQL queries** and indexing strategies, **reducing execution times by 30%** and improving database efficiency for analytics workloads.
- Led cross-functional collaboration** efforts, gathering business requirements and translating them into data-driven solutions, **improving operational efficiency**.

Education

Dalhousie University

Jan 2024 - Sep 2025

Master of Applied Computer Science (Co-op Candidate) | **GPA: 4.07/4.3**

Halifax, Canada

Relevant coursework: Database Management & Warehousing, Cloud Computing, Cloud Architecting

Charusat University

Jun 2018 - Apr 2022

Bachelor of Computer Engineering | **GPA: 8.7/10**

Gujarat, India

Projects

ETL on Tweets Data | [Source Code](#)

JAVA | OpenCV | MySQL | GCP

- Built a distributed transaction system** using Java, enabling dynamic redirection of queries across multiple MySQL VMs in GCP, supporting seamless ETL processes for efficient data processing and real-time interactions.
- Implemented horizontal and vertical data fragmentation techniques** for a distributed MySQL database ("SocialMedia"), optimizing query performance and ensuring scalability in a cloud-based environment.

Data Quality Assessment Tool

Python | Excel | Power BI

- Built an automated data validation tool** using Python (Pandas) to assess and flag data quality issues, **reducing manual error checking by 80%**.
- Integrated validation results into a Power BI dashboard**, enabling real-time monitoring and anomaly detection.
- Implemented data integrity rules**, improving reporting accuracy across multiple business units.

Power BI Procurement Dashboard

Power BI | SQL | Excel

- Developed dynamic procurement dashboards in Power BI** to track vendor performance, spending trends, and cost-saving opportunities, **resulting in 15% cost reductions** through improved procurement strategies.
- Integrated multiple data sources and optimized SQL queries**, improving real-time analytics processing by 50%.
- Provided executives with data-driven insights** for better decision-making and contract negotiations.