

VRAJ SHAH

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Professional Summary

Data-driven analyst with expertise in SQL, Power BI, data visualization, and business intelligence, passionate about leveraging technology to improve healthcare outcomes. Strong background in data analytics, workflow optimization, and reporting to enhance decision-making processes. Experienced in ETL pipelines, process automation, and dashboard development. Currently pursuing a Master of Applied Computer Science at Dalhousie University, with a focus on data analytics.

Technical Skills

Health Informatics & Data Standards: Basic understanding on HL7, FHIR, SNOMED, and ICD

Data Analysis & Visualization: Power BI, SQL (PostgreSQL, MySQL, SQL Server), Excel (Pivot Tables, VLOOKUP)

Programming & Scripting: SQL, Python (Pandas, NumPy), XML, JSON

ETL & Data Processing: Data Cleaning, Transformation, Data Validation

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.