Vraj Shah

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Professional Summary

Detail-oriented and adaptable Software Engineer with 2 years of experience in Python, SQL, and backend development, specializing in data pipeline design and cloud-based solutions. Skilled in gathering, cleaning, and organizing data from multiple sources and utilizing data engineering tools to support decision-making and strategic planning. Experienced with relational databases, ETL pipelines, and data visualization platforms. Currently pursuing a Master of Applied Computer Science, and eager to contribute to the field of data engineering.

Skills

Programming Languages: Python, SQL (PostgreSQL, MySQL, MariaDB), JavaScript (Node.js), Kotlin, Swift

Backend Development & Data Engineering: ETL Pipelines, Data Integration, Data Automation, Data Modeling, Query Optimization, REST APIs

Cloud Platforms & Tools: Microsoft Azure, Databricks, Azure Cloud Services, GCP, Apache Spark, DBT

Data Visualization: Power BI, Graph/Data Visualization Libraries

Database Management & Tools: PostgreSQL, MySQL, MariaDB, Data Warehousing, Database Design, Schema Optimization

Other Tools & Technologies: Git, Excel, Agile Methodology, OpenCV

Soft skills: Problem solving, Strong business and personal communication, Analytical thinking, 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*

- Accomplished backend system optimization by automating workflows using Python and REST APIs, which resulted in a 60% reduction in operational time for internal tools.
- Engineered ETL pipelines to gather, clean, and transform data from multiple sources, improving processing speed by 40% and ensuring clean datasets for reporting.
- Built and maintained mobile apps for real-time data collection using Swift, Kotlin, and React Native, improving reporting accuracy by 30%.
- Optimized SQL queries and database schemas in PostgreSQL and MySQL, reducing report generation time by 50% and improving data accessibility.
- Migrated legacy applications to Microsoft Azure, resulting in a scalable infrastructure and improving system performance by 35%.
- Developed reporting tools using Excel and Python, which reduced manual data aggregation time by 70% and enhanced team productivity.
- Collaborated cross-functionally with design, QA, and business teams to gather requirements and ensure timely feature delivery.

Education

Dalhousie University **Jan 2024 - Sep 2025**

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

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.
- Integrated and processed a large dataset of tweets from Kaggle, automating the ETL pipeline and enhancing system reliability, while ensuring robust and scalable backend architecture that aligns with distributed database management best practices.

Projects Investment Data Automation **Python | SQL | Azure | PowerBI**

- Automated financial data aggregation and reporting, using python and sql, cutting down manual data processing time by 60% and improving overall data accuracy.
- Integrated Azure Cloud services to enable real-time data processing, ensuring optimal resource allocation and cost-efficient operations.
- Developed interactive Power BI dashboards, providing real-time insights into financial trends and investment performance, enhancing data-driven decision-making.

Minimalistic HTTP Server with Node.js **JavaScript (Node.js) | REST API | System Integration**

- Developed a lightweight HTTP server by implementing custom request handling, routing, and response management, enabling efficient server-client communication via RESTful APIs.
- Improved API response times by 25% by optimizing asynchronous processing and request handling, leading to faster data delivery and improved system performance.
- Ensured API reliability by testing endpoints using Postman, identifying and fixing potential request failures before deployment.