Vraj Shah

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Professional Summary

Detail-oriented Software Developer with experience in Python, SQL, and cloud technologies, specializing in data engineering, process automation, and scalable application development. Strong foundation in ETL pipeline design, database optimization, and cloud infrastructure. Currently pursuing a Master of Applied Computer Science at Dalhousie University, with a focus on data management, cloud computing, and business intelligence solutions.

Skills

Programming: Python (Pandas, NumPy), SQL (PostgreSQL, MySQL, SQL Server), Java, C#

Data Engineering: ETL pipeline development, query optimization, database design, data warehousing

Cloud & DevOps: Azure, GCP, Databricks, GitHub Actions, GitLab CI/CD

BI & Analytics: Power BI, Tableau

Version Control & Tools: Git, GitHub, Docker, JIRA

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*

- **Engineered end-to-end ETL pipelines** using Python (Pandas) and SQL, **optimizing data ingestion speeds by 40%** and ensuring high data integrity across business-critical systems.
- **Designed and implemented advanced SQL indexing** and partitioning strategies, **reducing complex query execution times by 30%**, improving analytics performance for large datasets.
- **Developed and integrated RESTful APIs** using FastAPI and Flask, automating investment data processing and streamlining communication between various financial applications.
- **Led the migration of legacy SQL databases to a modern cloud-based infrastructure** on Azure, enhancing scalability, reliability, and disaster recovery processes.
- **Devised error-handling mechanisms and logging systems** that **reduced troubleshooting time by 50%**, increasing operational efficiency and reducing downtime.

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

Cloud-Based ETL & Data Processing   **FastAPI | SQL | Azure**

- **Designed and implemented an ETL pipeline** to process large-scale financial transaction data, **ensuring efficiency and reliability in data movement** across cloud platforms.
- **Optimized SQL queries and indexing strategies**, reducing query execution time by 25% and enhancing performance for real-time analytics and reporting dashboards.
- **Deployed the solution on Azure**, leveraging Databricks for scalable data transformations, ensuring seamless data integration for business intelligence workflows.

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

- **Automated financial data aggregation and reporting**, 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.