Vraj Shah

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Professional Summary

Results-driven Software Developer with expertise in Python, SQL, and cloud technologies, specializing in application development, process automation, and data-driven solutions. Strong experience in building scalable applications, optimizing database performance, and integrating cloud solutions. Passionate about leveraging technology to enhance investment and business intelligence processes. Currently pursuing a Master of Applied Computer Science at Dalhousie University, with a focus on data management and cloud computing.

Skills

Programming & Automation: Proficient in Python (Pandas, NumPy), C#, Java, and SQL (PostgreSQL, MySQL, SQL Server). Skilled in scripting and automation to streamline workflows and improve efficiency.

Data Management & Query Optimization: Expertise in designing, implementing, and optimizing SQL databases, creating ETL pipelines, and improving data retrieval speeds through advanced indexing techniques.

Cloud & DevOps: Experience with Azure Cloud Services and Google Cloud Platform (GCP), implementing CI/CD pipelines using GitHub Actions and GitLab CI/CD for seamless deployments.

Application Development: Developed RESTful APIs with FastAPI and Flask, implemented data-driven solutions, and integrated scalable automation systems to enhance business processes.

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*

- **Spearheaded the development of Python-based applications** to automate data processing, **reducing manual efforts by 50%** and increasing operational efficiency.
- **Designed and optimized ETL pipelines** using Python (Pandas) and SQL, **enhancing data ingestion speed by 40%** while ensuring high data integrity.
- **Developed API-driven automation solutions** that streamlined investment data processing, **enabling seamless communication between various financial applications and services.**
- **Optimized SQL queries and indexing strategies, reducing query execution times by 30%**, improving performance for real-time data analytics and reporting.
- **Collaborated with cross-functional teams** to integrate cloud-based database solutions, **enhancing system scalability, performance, and reliability**.
- **Implemented robust error-handling mechanisms and logging systems** in automation scripts, **reducing system downtime and improving troubleshooting efficiency**.
- **Led a migration project from legacy SQL databases to a modern cloud-based infrastructure**, ensuring data integrity and optimizing system performance.

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.

Cloud-Based API Development   **FastAPI | SQL | Azure**

- **Designed and developed a high-performance API-driven data processing system** to handle large volumes of financial transactions with minimal latency.
- **Deployed the system on Azure Cloud**, implementing robust monitoring and logging mechanisms to ensure high availability and resilience.
- **Improved system performance through caching strategies and optimized SQL queries**, reducing data retrieval time by 25% and enhancing user experience.

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

- **Developed an automated data aggregation and reporting tool** to streamline investment data processing, **reducing manual workload and improving data accuracy**.
- **Integrated Azure Cloud services to facilitate scalable data processing**, ensuring optimal resource allocation and minimizing infrastructure costs.
- **Implemented robust monitoring dashboards to track automation success**, providing real-time insights and improving system reliability.