Piyush Raj Singh

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EDUCATION

University at Buffalo — Buffalo, NY
Masters of Science, Major in Engineering

Kanpur University — Kanpur, India
Bachelors of Technology, Major in Computer Science

EXPERIENCE

Data Engineer — May 2022 – Present
Interco Trading Co. — *St. Louis, MO*

- Successfully designed and implemented complex ETLs using Azure Data Factory and SSIS across diverse data sets. Successfully leveraged Spark and Snowflake to handle large-scale data processing and analytics tasks.
- Played a key role in developing and optimizing SQL relational databases, demonstrating proficiency in handling intricate queries.
- Spearheaded the creation of semantic data models, implementing data cleansing, and segmentation techniques.
- Demonstrated a comprehensive understanding of relational databases, columnar data warehouses, data lakes, and various storage types.
- Effectively employed Tableau for data visualization and analysis to enhance decision-making processes.
- Demonstrated proficiency in utilizing Azure Analysis Services for comprehensive data processing and analytics within the Azure ecosystem.
- Applied expertise in Azure Synapse Analytics to facilitate seamless data integration and analysis.
- Managed source code effectively using Git and Azure DevOps, ensuring collaborative and streamlined development processes.
- Applied a solid understanding of data structures and algorithms in executing data engineering tasks.
- Played a key role in integrating data engineering processes into the software development lifecycle (SDLC) for optimal results.
- Engaged with end-users to comprehensively understand and document business and functional requirements, aligning data solutions with organizational needs.

Data Engineer — May 2019 – Jan. 2020
Ex10sion Technologies — *Hyderabad, India*

- Developed, tested, and maintained scalable ETL pipelines, efficiently ingesting data from diverse sources to ensure data integrity and accessibility.
- Actively participated in the development and maintenance of the corporate data warehouse, contributing to the creation of a centralized and efficient data repository.
- Conducted complex data queries and analysis, extracting valuable insights to support informed decision-making processes.
- Demonstrated the ability to understand internal needs and effectively translate them into technical requirements, ensuring alignment between business objectives and technical solutions.

PROJECTS

Football Web App | *Python, Streamlit, Apache Beam, Snowflake, Docker, Airflow* — June 2020 – Present

- Developed a full-stack web application using with Streamlit serving a REST API with Snowflake
- Implemented GitHub CI/CD to deploy the app as modified
- Visualized all the players chart and recommended players list
- Used Airflow to implement data pipeline scehdule for fresh data every 24 hours

TECHNICAL SKILLS

Languages: Python, SQL, NOSQL, HTML/CSS, R, SQL, PL/SQL, DDL, MDX, HiveQL, SparkSQL, Scala
Frameworks: Streamlit, JUnit, Airflow, FastAPI, ScikitLearn, NLP, Git Actions
Developer Tools: Git, Docker, AWS, Azure Devops, Azure Anlaysis, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, seaborn, Pytorch, Tenserflow, Kafka, Hadoop, Hive, Spark, Databricks, Azure Synapse, Tableau, ApacheSpark, PowerBI