DHRUVRAJ SINGH RATHORE

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Data Engineer with 3 years' experience skilled in Python, PySpark, and AWS, with expertise in building end-to-end ETL pipelines, Airflow orchestration, and data modeling that improve reliability, speed, and scalability across enterprise systems.

EDUCATION

Texas A&M University

Master of Science in Data Science, College of Engineering, GPA: 4.0

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science, GPA: 3.8

August 2024 – December 2025 College Station, TX, United States July 2018 – May 2022 Chennai, Tamil Nadu, India

WORK EXPERIENCE

Al Engineer Intern
TechSur Solutions

June 2025 - Present

Reston, Virginia, United States

- Developed an **intelligent automation pipeline** that generates and validates application code from structured requirements, **reducing manual development effort by 70%** and improving delivery consistency.
- Implemented automated error detection and correction workflows to identify build failures, fix code issues, and re-verify deployments, increasing first-attempt build success from 30% to 85%.
- Integrated CI/CD pipelines with APIs and internal tools to create an end-to-end workflow from feature definition to deployment, improving release speed by 40% and reducing manual handoffs.

Data Engineer

Draup Business Solutions

December 2022 – June 2024 Bangalore, Karnataka, India

- Designed scalable PySpark ETL pipelines on AWS EMR to process 50 TB+ workforce data, improving runtime by 30% and ensuring 99% data accuracy through optimized partitioning and strict schema validation.
- Automated **daily validation for 200M+ records using Airflow DAGs**, powering a live data-quality dashboard that cut QA escalations by 50% and strengthened data trust across the clients.
- Modeled **Redshift OLAP schemas** for 20M+ job and location records, optimizing joins and aggregations to **deliver** 40% faster analytical queries for business stakeholders.
- Implemented a serverless data pipeline using AWS Lambda + DynamoDB for on-demand S3 queries, reducing ad-hoc client data delivery time by 30%.

Associate Data Analyst

HighRadius Corporation

August 2021 – November 2022

Hyderabad, Telangana, India

- Optimized SQL and Snowflake workflows for AR data processing using indexing and window functions, cutting runtime by 40% and improving reporting speed.
- Developed a Python-based keyword matching algorithm to automate claim-to-deduction mapping, **increasing recovery efficiency by 60%.**
- Collaborated with consultants and product owners to restructure AR data models in Snowflake, ensuring clean, analysis-ready data that reduced ad-hoc query time for finance teams by 30%.
- Designed **AR dashboards in Power BI and Tableau** that reduced collectors' workload by 60% and **improved cash** recovery by 20%, adopted by 20+ client teams.

PROJECTS

Order Analytics Pipeline | GitHub | Python, DBT, SnowFlake, Airflow, Astro CLI

Sept 2025 - Oct 2025

- Built an end-to-end pipeline using **dbt**, **Snowflake**, **and Airflow** to transform raw transactional data into analytics-ready tables with daily automated scheduling
- Implemented automated data validation tests to ensure accuracy and consistency across staging and reporting layers.
- Containerized the workflow with **Docker and version-controlled it via Git** for reproducible deployments and seamless automation.

SKILLS

Programming: Python, SQL, T-SQL, Pandas, Shell Script, Bash

Cloud Infrastructures/Services: AWS EC2, S3, Lambda, Glue, Redshift, Data Lakes, Kafka, Azure Databricks Big Data & Databases: Relational Databases (MySQL, PostgreSQL), NoSQL, Redis, MongoDB, Schema Design (Logical/Physical), Data Modeling (Snowflake/Star Schemas), Data Mining, Spark, Hadoop, HDFS, DBT

Tools & Visualizations: Version Control(Git, GitHub), CI/CD, JIRA, Apache Airflow, Docker, AWS Quicksight