ELENA MARTINEZ

Senior Data Engineer

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Summary

Senior Data Engineer with 6 years of experience building robust data pipelines and warehousing solutions. Expertise in processing petabyte-scale datasets for analytics and machine learning applications.

Experience

Senior Data Engineer   Feb 2021 – Present
InsureTech Analytics
- Architect and maintain data lake processing 5TB+ daily from 200+ data sources
- Built real-time streaming pipelines using Kafka and Spark Streaming
- Designed dimensional data models enabling self-service analytics for 100+ business users
- Reduced data pipeline failures by 70% through improved monitoring and testing

Data Engineer   Jun 2018 – Jan 2021
E-Commerce Giant
- Developed ETL pipelines for customer behavior analytics
- Migrated legacy data warehouse to Snowflake, improving query performance by 10x
- Implemented data quality frameworks and lineage tracking

Junior Data Engineer   Aug 2017 – May 2018
Marketing Analytics Co.
- Built data ingestion pipelines from marketing platforms
- Created dashboards and reports using Tableau

Education

M.S. Data Science – Northwestern University   2017
B.S. Statistics – University of Illinois   2015

Skills

Python, Scala, SQL, Spark, Kafka, Airflow, Snowflake, AWS (Redshift, Glue, S3), dbt, Data Modeling