

SEUNGRYUL LEE

DATA ENGINEER

CONTACT

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- 📍 New York City Metropolitan Area
- 🌐 <https://sl237-lee.github.io/>

PROFILE SUMMARY

Data Engineer with 3+ years of experience in cloud platforms, specializing in platform engineering, pipeline optimization, and automation. Skilled in Azure SQL Database, Data Factory, Synapse Analytics, and Azure Analytics (Fabric, Databricks, Purview), as well as multi-cloud tools like Snowflake, Redshift, and BigQuery. Passionate about building secure, scalable data solutions that drive business impact and innovation.

EDUCATION

NEW JERSEY INSTITUTE OF TECHNOLOGY

- Bachelor of Science in Applied Math & Computer Science

SKILLS

Data Engineering & Cloud Platforms

- Databricks, Snowflake, Redshift, Azure Synapse, Cloud Migration, Data Lakehouse Architecture, BI/Analytics Integration, RDBMS

Azure Databases & Analytics

- Azure SQL DB, Cosmos DB, PostgreSQL, Azure Fabric, Azure Databricks, BigQuery, Snowflake, Redshift, Data Warehousing, Data Lakes

Data Pipelines & Automation

- Azure Data Factory (ADF), Apache Airflow, AWS SageMaker, ETL/ELT Orchestration, Real-Time & Batch Processing, Data Validation & Monitoring

WORK EXPERIENCE

Axtria inc.

2023 - 2025

Software Engineer

- Designed and maintained scalable ETL/ELT pipelines using Azure Data Factory and Apache Airflow, integrating automation to streamline processing and reduce latency.
- Utilized SQL and Python for schema migrations, table partitioning, and query optimization to improve efficiency in large-scale environments.
- Implemented data validation frameworks, orchestration workflows, and monitoring systems to ensure accuracy, reliability, and compliance across datasets.

Data Engineer

- Specialized in Databricks, Snowflake, Redshift, and Azure Synapse, leading database architecture, pipeline orchestration, and performance tuning initiatives.
- Built and optimized ADF pipelines for large-scale datasets, including troubleshooting, monitoring, and automation to ensure scalability and compliance.
- Developed indexing strategies, regression testing, and validation frameworks to strengthen system stability and governance.

Humanf

2022 - 2023

Data Engineer

- Optimized AI-driven sensor models for autonomous driving by engineering large-scale data pipelines with Python, C++, and Pandas/NumPy, ensuring efficient ingestion and transformation.
- Automated real-time and batch data workflows, supporting machine learning experimentation and model scalability.