TROY ASCHER

Full Stack Data Engineer | SQL | Snowflake | Python | dbt | Terraform | Azure | Fivetran | Power BI

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SUMMARY

Full Stack Data Engineer with 3+ years designing near real-time and batch data pipelines using Snowflake, dbt, Fivetran, and Azure. Strong dimensional modeling (star schema) and data governance background; reduced Snowflake compute cost by 38% and improved throughput by 21%. Experienced building certified datasets and collaborating cross-functionally with product and analytics teams.

TECHNICAL SKILLS

SQL • Python • Snowflake • dbt • Azure Data Factory • Azure DevOps • Terraform • Fivetran • Power BI • Git • Jenkins • Monte Carlo • ActiveBatch • Teradata • Unix • ETL • Data Modeling • Performance Tuning • Data Governance • Agile/Scrum

EXPERIENCE

Associate Data Engineer — Sub-Zero Group | Madison, WI | Jul 2024–Present

- Design and operate near real-time (once per minute) and batch data pipelines (ingestion → transformation → reporting) using Terraform, Fivetran, dbt, Snowflake, Azure DevOps, and Power BI.
- Designed ETL pipelines and dimensional models (star schema) supporting SAP ERP migration.
- Ensured data accuracy by validating datasets with dbt tests and Monte Carlo monitoring.
- Managed Snowflake security, access controls, and compute optimization.

Data Engineer (Rotational Program) — Optum / UnitedHealth Group | Austin, TX | Jul 2022–Jul 2024

- Migrated pipelines (DataStage/Teradata/Unix) to Snowflake and Azure, building scalable ingestion and transformation processes.
- Built automated Snowflake performance framework (Python + Snowpark) reducing compute cost 38% and improving scheduling efficiency.
- Designed reusable Snowflake security model (row/column) ensuring HIPAA compliance.
- Improved pipeline throughput 21% and reduced manual effort 81% by refactoring SQL/PL-SQL and automating operational tasks.
- Designed certified datasets and maintained data lineage, metadata, and mapping documentation for analytics and data science consumers.
- Built event-driven Snowflake pipelines using Streams/Tasks and near real-time scheduling.

Full-Time Student — Boston University & XJTLU China | 2017–2022

- Completed Master's (CIS) and Bachelor's (International Business + Chinese Language) with ETL/data warehouse projects.

Senior HRIS Analyst — Ameriprise Financial | Minneapolis, MN | 2015–2017

- Managed PeopleSoft interfaces, security roles, and UAT; partnered with engineering on deployments.

EDUCATION

Master of Science — Computer Information Systems (Business Intelligence & Database Management)
Boston University — Beijing, China (2022)

Bachelor of Arts — International Business & Chinese Language (Mandarin)
Xi'an Jiaotong–Liverpool University — Suzhou, China (2020)