

Melissa Hall

Data Engineer

Recent CS graduate with a year of internship experience building ETL jobs in Python and SQL. Looking for a data engineering role where I can grow on a team that takes code review seriously.

Contact Information



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Columbus, OH 12345

Education

- B.S. in Computer Science, Ohio State University, 2024
- Relevant coursework: Database Systems, Distributed Computing, Data Structures & Algorithms, Software Engineering, Statistics for Data Science
- Capstone: Built a streaming pipeline using Kafka and Spark Structured Streaming to process simulated IoT sensor data

Key Skills

- Python (pandas, pytest, SQLAlchemy)
- SQL (PostgreSQL, Redshift, MySQL)
- Apache Airflow
- dbt (incremental models, tests)
- AWS (S3, Glue, Redshift, Lambda)
- Git and GitHub pull request workflows
- Linux shell scripting (bash)
- Docker basics
- Data modeling (star schema, normalization)
- Unit testing and CI with GitHub Actions

Professional Experience

DATA ENGINEERING INTERN | LARKSPUR HEALTH NETWORKS, COLUMBUS, OH
SUMMER 2023, RETURNING SPRING 2024

- Wrote 12 Airflow DAGs that moved claims data from SFTP drops into a Redshift staging schema.
- Added unit tests to a Python ingestion library that previously had none; bumped coverage from 14% to 71%.
- Paired with a senior engineer to debug a Glue job that was silently dropping rows when a CSV had stray quotes.
- Presented an intern project on dbt incremental models at the company tech talk (~30 attendees).

UNDERGRADUATE RESEARCH ASSISTANT | OHIO STATE UNIVERSITY, DATABASE GROUP, COLUMBUS, OH
2022 – 2023

- Cleaned and merged 8 public health datasets for a published paper on county-level vaccination rates.
- Built a small Postgres + Streamlit app the lab still uses to share query results with collaborators.
- Wrote setup docs so new RAs can spin up the local environment in under an hour.

- Jupyter and exploratory data analysis
- Technical writing and documentation