JULIAN MERCER

DATA ENGINEER WITH NO EXPERIENCE

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PROFESSIONAL SUMMARY

Aspiring Data Engineer with 1+ years of internship and project experience building small Python and SQL pipelines. Understands scheduling, testing, and cloud storage basics, and is ready to learn production practices on a supportive data platform team.

CORE SKILLS

Python | SQL | PostgreSQL | Apache Airflow | Amazon S3 | Parquet | Git | pytest | Docker basics | Linux | Data cleaning | Logging | Documentation | Bash

PROFESSIONAL EXPERIENCE

Data Engineering Intern Jun 2025 - Present
Comcast, Philadelphia, PA

- Built a Python job that pulls daily support-ticket exports into PostgreSQL, with simple logging so failed loads show up in the team channel.
- Wrote SQL transformations that standardized date and region fields across five source files, cutting manual cleanup for one analyst.
- Added unit tests for the parsing functions and fixed three edge cases found during code review with a mentor.
- Learned Airflow by moving one cron script into a DAG and recording the steps in a short how-to for the next intern.
- Shadowed the on-call engineer for two weeks and wrote notes on how failed jobs were traced from logs to the root cause.
- Set up a free-tier AWS S3 bucket with lifecycle rules for a side project, and documented the cost and permissions it needed.
- Wrote a README and a diagram for the ticket pipeline so a new teammate could run it locally with one Docker Compose command.

Teaching Assistant, Data Structures Sep 2024 - Mar 2025
Drexel University, Philadelphia, PA

- Ran weekly recitations for 60 students on hash tables, trees, and complexity, reviewing code for correctness and readability.
- Wrote autograder test cases in Python for four assignments, catching edge cases that earlier sections had missed.
- Held office hours twice a week and helped students debug off-by-one errors and memory problems using print logging.
- Built a small tool that summarized autograder failures by test name so the course staff could spot common mistakes.

Independent Project Aug 2025 - Present
Open-Source Data Pipeline, GitHub, Philadelphia, PA

- Built an Airflow DAG that loads public transit feed data into PostgreSQL every day, with retries and a failure alert by email.
- Modeled the loaded tables with dbt, adding tests for unique trip identifiers and valid stop times.
- Published the repository with setup steps, a data dictionary, and a note on how I would scale it past a single machine.

EDUCATION

B.S. in Information Science, Drexel University, Philadelphia, PA

CERTIFICATIONS

AWS Certified Cloud Practitioner | dbt Fundamentals Certificate