JULIAN MERCER

ENTRY-LEVEL DATA ENGINEER

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PROFESSIONAL SUMMARY

Entry-level Data Engineer with 2+ years across a summer internship and a first full-time role, building Python and SQL pipelines on AWS. Careful about testing, documentation, and keeping scheduled jobs running while learning from senior engineers.

CORE SKILLS

Python | SQL | Apache Airflow | AWS Glue | Amazon S3 | Amazon Redshift | Athena | Git | pytest | Docker | Data testing | Documentation | Linux | dbt basics

PROFESSIONAL EXPERIENCE

Associate Data Engineer Jan 2025 - Present
Intuit, Mountain View, CA

- Maintain 18 Airflow DAGs that load small-business invoice data into Redshift, resolving failed runs within the same morning on the team rota.
- Added row-count and null checks to six ingestion jobs, which caught three upstream schema changes before reports were affected.
- Wrote a Python script that backfilled 14 months of missing records in batches, reviewed by a senior engineer before it ran in production.
- Documented each pipeline's source, schedule, and owner in a shared runbook the on-call group now uses for triage.
- Pair-programmed with a senior engineer on a Redshift sort-key change, then measured the query speedup and wrote up the steps for the team.
- Joined a four-person on-call rotation after three months, following the runbook and escalating only the incidents that needed an owner.

Data Engineering Intern Jun 2024 - Aug 2024
Fidelity Investments, Boston, MA

- Built a pipeline in Python and AWS Glue that moved daily fund-holding files into S3 and Athena, with logging and retry handling.
- Converted a set of 20 manual CSV reports into scheduled SQL jobs, saving a team roughly four hours each week.
- Wrote unit tests with pytest for the parsing code and presented the project and its limits to the data platform group at the internship demo day.
- Used CloudWatch logs to find why a nightly Glue job slowed, and a small partitioning fix brought it back to its normal 12 minutes.
- Added a data dictionary page for the holdings tables so analysts could look up column meanings without messaging the team.

Teaching Assistant, Databases Aug 2023 - May 2024
Purdue University, West Lafayette, IN

- Held weekly lab sessions for 45 students on SQL joins, indexing, and normalization, and answered questions in the course forum.
- Graded database design projects against a rubric and wrote feedback explaining schema problems with a corrected example.
- Built a Docker-based Postgres lab environment that let students start the exercises in minutes without a local install.
- Wrote practice queries with solutions covering window functions, helping the class average on the final exam rise by a few points.

EDUCATION

B.S. in Computer Science, Purdue University, West Lafayette, IN

CERTIFICATIONS

AWS Certified Cloud Practitioner | Databricks Certified Data Engineer Associate