

QA Engineer - Data

Location: Hybrid / Remote | Experience: 2 - 6 Years

About the Role

We are looking for a QA Engineer specializing in data quality and testing to ensure the accuracy, completeness, and reliability of our data pipelines, warehouses, and analytical outputs. You will develop and execute testing strategies for data-intensive applications, ETL processes, and BI reports to maintain the highest standards of data integrity.

Key Responsibilities

- Design and execute comprehensive test strategies for data pipelines, ETL/ELT processes, and data warehouses.
- Validate data accuracy, completeness, consistency, and timeliness across source and target systems.
- Develop and maintain automated data validation scripts and testing frameworks using SQL and Python.
- Perform data reconciliation between source systems, data lakes, and reporting layers.
- Test BI dashboards and reports to ensure accurate data representation and calculation logic.
- Identify, document, and track data quality issues; collaborate with data engineers to resolve them.
- Define and monitor data quality KPIs and SLAs across data assets.
- Develop and maintain data quality rules, checks, and profiling routines.
- Support regression testing for data platform migrations and upgrades.
- Leverage AI tools including Claude for test case generation, anomaly detection, and documentation.

Required Qualifications

- Bachelor's or Master's degree in Computer Science, Information Systems, or a related field.
- 2+ years of experience in data testing, data quality, or QA for data-intensive applications.
- Strong SQL skills with ability to write complex queries for data validation and reconciliation.
- Experience testing ETL/ELT pipelines and data warehouse solutions.
- Proficiency in Python for test automation and data validation scripting.
- Familiarity with data quality frameworks and tools (Great Expectations, dbt tests, Soda).
- Experience with cloud data platforms: AWS, Azure, or GCP.
- Understanding of data warehousing concepts, data modeling, and database design.
- Strong analytical skills with meticulous attention to detail.

Preferred Qualifications

- Experience with Snowflake, Databricks, or modern cloud data platforms.
- Familiarity with CI/CD pipelines and automated testing integration.
- Knowledge of data governance and data cataloging tools.
- Experience with performance testing for data pipelines and queries.
- Familiarity with AI/ML model validation and testing concepts.
- Experience leveraging Claude or similar AI tools for test automation and documentation.
- ISTQB or similar QA certifications.

Tools & Technologies

Testing: Great Expectations, dbt Tests, Soda, pytest, Selenium (for BI) | Data Platforms: Snowflake, Databricks, Redshift, BigQuery | Cloud: AWS (S3, Glue, Redshift), Azure (Data Factory, Synapse), GCP (BigQuery) | Languages: SQL, Python | AI Tools: Claude API for test generation and anomaly detection | Other: Git, Jira, Jenkins, Apache Airflow, dbt

What We Offer

- Work on complex data quality challenges across multiple industries.
- Collaborative team environment focused on data excellence.
- Competitive salary and comprehensive benefits.
- Flexible hybrid/remote work options.
- Professional growth opportunities in data quality engineering and data governance.