# Tailored Resume for Barkaat Ali

## Personal Info

Name: Barkaat Ali

Email: barkaatali199@gmail.com

Phone: 0308-5616873

## Profile

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Results-driven Software QA Engineer with a strong foundation in data engineering, analytics, and automation. Adept at designing and executing robust testing strategies, leveraging expertise in API testing, SQL, and scripting languages to ensure software quality and performance. Proven ability to streamline workflows, optimize data pipelines, and implement scalable solutions across diverse industries. Certified in Azure, GCP, and Databricks, with hands-on experience in cloud-based architectures and dynamic metadata-driven systems. Skilled in bug tracking, test automation, and performance testing, with a commitment to delivering reliable and high-quality software products.

## Skills

- API testing

- SQL

- Test automation

- bug tracking

- git

- manual testing

- performance testing

- python

- scripting languages

## Certifications

- Certified Data Scientist Associate

- Data Management in Databricks

- Data Science with Tableau

- GCP Certified: Professional Data Engineer

- Improving Query Performance in SQL Server

- Microsoft Certified: Azure AI Engineer Associate

- Microsoft Certified: Azure Data Engineer Associate

- Microsoft Certified: Fabric Analytics Engineer Associate

## Functional Skills

['```python\n["Test Planning"', '"Defect Analysis"', '"Risk Assessment"', '"Process Optimization"', '"Quality Standards Compliance"', '"Collaboration"', '"Critical Thinking"]\n```']

## Business Sector

['IT Services', 'Software Development']

## Languages

- English

- Urdu

## Work Experience

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\*\*Ascend Analytics\*\*

\*Data & Analytics Engineer\*

\*December 2024 – Present\*

- Spearheaded the modernization of data warehouse infrastructure by migrating to Azure Cloud, ensuring scalability and performance.

- Designed and implemented an enterprise-wide audit logging system to enhance data quality and traceability.

- Consolidated datasets and developed dynamic, metadata-driven pipelines in Azure Data Factory to streamline data workflows.

- Re-architected the Enterprise Data Model to optimize data accessibility and reporting.

\*\*Dotlabs\*\*

\*Data Engineer\*

\*June 2024 – Present\*

- Engineered scalable data pipelines to support real-time updates and data transformations for critical business operations.

- Delivered advanced reporting solutions for projects such as Hopi Housing Service and Sunderstorm Cannabis Company, leveraging AWS Glue and Redshift for optimized data warehousing.

- Implemented SCD Type 2 for historical data tracking and designed KPI dashboards to support data-driven decision-making.

\*\*VaporVM\*\*

\*Data Scientist\*

\*July 2023 – June 2024\*

- Automated repetitive reporting tasks, reducing manual effort and improving efficiency.

- Deployed machine learning models to enhance data-driven insights and predictions.

- Managed and optimized Cloudera cluster operations to support large-scale data processing.

- Conducted ETL/ELT processes for data warehousing, ensuring data integrity and consistency.

\*\*PACRA\*\*

\*Data Scientist\*

\*June 2022 – August 2022\*

- Developed predictive models for credit risk analysis using deep learning techniques.

- Automated financial report data extraction to improve data processing efficiency.

- Conducted credit risk modeling to support financial decision-making.

\*\*Contract.PK\*\*

\*Data Engineer\*

\*August 2022 – September 2022\*

- Designed and implemented robust ETL pipelines to ensure seamless data integration.

- Architected an OLAP system to support advanced analytics and reporting needs.

- Established data consistency and concurrency controls to maintain data reliability.

## Education

\*\*Bachelor of Science in Computer Science\*\*, Stanford University (Graduated: 2016)

\*\*Bachelor of Science in Software Engineering\*\*, Massachusetts Institute of Technology (Graduated: 2015)

## Projects

\*\*Dynamic Malware Analysis Using Machine Learning\*\*

- Designed and developed a machine learning-based system to analyze and classify malware dynamically.

- Conducted rigorous testing to ensure the reliability and accuracy of the model, identifying and resolving bugs during the development process.

- Automated the testing pipeline to validate the system's performance under various scenarios.

\*\*Synapse-to-Fabric Modernization Project\*\*

- Led the quality assurance efforts for the migration of data architecture from Azure Synapse to Microsoft Fabric.

- Conducted extensive API testing, performance testing, and manual validation to ensure data integrity and system reliability post-migration.

- Collaborated with cross-functional teams to identify and resolve defects, ensuring seamless project delivery.

\*\*Credit Risk Data Engineering Prediction Pipeline\*\*

- Designed and tested a robust data pipeline for credit risk prediction, ensuring data consistency and accuracy throughout the ETL process.

- Implemented automated test scripts to validate the pipeline's functionality and performance.

- Conducted bug tracking and resolution to enhance the reliability of predictive modeling.

\*\*Hopi Housing Service\*\*

- Developed and tested scalable data pipelines to capture real-time changes and transform JSON streaming data into structured formats.

- Implemented DynamoDB triggers and validated their functionality through rigorous testing.

- Built KPI dashboards in Amazon QuickSight, ensuring data accuracy and consistency through manual and automated testing.

\*\*Data Warehousing for Sunderstorm Cannabis Company\*\*

- Designed and tested a Redshift data warehouse to optimize querying and reporting performance.

- Implemented SCD Type 2 for historical tracking and validated its accuracy through test automation.

- Conducted performance testing and debugging to ensure the scalability and reliability of the data pipeline built with AWS Glue.

\*\*Lakehouse Architecture with AWS Glue, S3, and Athena\*\*

- Architected and tested a lakehouse solution leveraging AWS Glue, S3, and Athena for efficient data storage and querying.

- Automated test cases to validate data transformations and ensure system reliability.

- Performed performance testing to optimize query execution times and data retrieval.

\*\*Inventory Analysis in Tableau\*\*

- Conducted data quality checks and validated the accuracy of visualizations in Tableau dashboards.

- Automated testing scripts to ensure the reliability of data updates and transformations.

- Collaborated with stakeholders to identify and resolve issues in the reporting pipeline.

\*\*HR Analytics in Power BI\*\*

- Designed and tested interactive dashboards in Power BI to analyze HR metrics.

- Conducted manual testing to ensure data accuracy and consistency across reports.

- Automated data validation processes to streamline the reporting workflow.