# Shubhra Singh

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**Professional Summary:**

A highly skilled and results-driven Technical Test Manager/Test Lead/Data Analyst professional with over 14 years of extensive IT experience. Proficient in API testing, Reltio testing, and ETL testing, particularly on platforms such as GCP- Big Query and Cloud Snowflake, as well as in Big Data/Hadoop/ETL/RDBMS environments. Demonstrated expertise in providing innovative solutions and effectively testing business challenges across diverse industries including healthcare, banking, insurance, retail, and telecom. Experienced in collaborating with multiple vendors and managing geographically dispersed teams. Committed to enhancing software quality and user experience through meticulous testing practices, including automation testing, data testing, data migration, data transformations, data profiling, and ensuring data quality. Skilled in comprehensive analysis of data across end-to-end systems to drive continuous improvement and optimization.

**EDUCATIONAL BACKGROUND:**

Bachelor of Engineering - Computer Engineering, India.

**Technical Skills:**

* Databases: Snowflake, Big Query, Teradata, Oracle, DB2 and SQL/MYSQL server.
* ETL Tools/Reporting Tools: AbInitio, Informatica, MuleSoft, Airflow Dag, OBIEE, Cognos and MSTR.
* Big Data Testing: Hadoop Ecosystem, Confluent Kafka, HIVE, Sqoop, HDFS, Zookeeper, YARN, Hue.
* Languages: SQL, PL/SQL, UNIX, Python.
* Web Technologies: HTML, XML, JSON.
* API Tool: Postman.
* Cloud: GCP, AWS.
* Deployment Tool: Jenkins.
* Versioning Tool: GIT.
* BI tools: OBIEE, Cognos and Micro Strategy.
* Test Management Tools: HP Quality Centre/ALM, Rally (Agile), Jira, SOAP UI.
* Technology: GCP, Data Warehousing, MDM, Reltio, Big Data & Business Intelligence.
* Utility Tools: WinSCP, Putty, Control M, DAG, Airflow, Alation.

**Certifications & Awards**

* Received various Accolades from Client in CVS, AMFAM and Sainsbury at Onsite.
* Internal company trained professional on GCP- Big query, Big Data, Reltio and Snowflake.
* Oracle Certified Professional
* Certified on Agile Methodology.

**Skills**

* 13+ years of experience working in new project implementations and migration projects, ensuring seamless integration and optimal performance from the legacy application ex, GCP - Big Query, GCP- Snowflake and Oracle, SQL server, DB2, XML, JSON to Big Data and SAS to AbInitio, Teradata.
* Proficient in functional testing methodologies for Reltio-based applications, ensuring adherence to business requirements and specifications. Conducted regression testing for Reltio configurations and customizations.
* Proficient in API testing methodologies and tools such as Postman, SoapUI and Mulesoft Any point Platform to validate APIs and integrations.
* Knowledge and experience of working with JSON and XML data formats.
* Experience in testing and building data pipelines, extracting insights from data, discovering trends and outliers, and predicting future trends in large datasets to make informed business decisions for multiple US health care and banking clients.
* In depth experience in implementing various QA methodologies involving preparing Test Plans, writing Test Cases, Test Scripts, Test Procedures and executing them; performing defect reporting and tracking throughout the entire Software Development Life Cycle (SDLC).
* Managed 20+ team members on the project in ETL/Functional/Automation/Test Teams in both onsite - offshore model.
* Collaborated with cross- functional teams including developers, business analysts, and product owners to understand requirements and acceptance criteria to define testing requirements and strategies ensuring alignment with project goals and deadlines.
* Conducting daily/weekly/monthly status reports and reporting to the client on the test deliverables.
* Strong Experience to test and integrate various frameworks to build data pipelines between RDBMS databases like Big Query/Snowflake, Teradata, Oracle, and MySQL.
* Experience in testing, analyzing, and writing Complex SQL queries to build expected results and compare source to target data in Snowflake, Big query, Teradata, Informatica, GCP, Hadoop, Hive, Oracle, SQL Server and IBM DB2 for data Validations.
* Strong understanding of Agile and Scrum Methodologies.

**Work History:**

**Employer: Compunnel, Apex System**

# Client: Ascension, St. Louis, MO May 2023 – till date.

**QA Technical Test Lead**

# Project: Application Data Driven Management Group

* Led the testing team and testing activities for data validation in big query by writing complex SQL queries.
* Performed validations of Reltio implementations, ensuring data accuracy, system reliability and performance optimization.
* Performed functional, regression, and Performance testing of Reltio APIs using Postman to validate that they perform the intended operations correctly and produce the expected results, including data mapping, transformations, and error handling. Validated the Message streaming in Topics in Confluent Kafka and MuleSoft logs
* Collaborated with cross functional teams to develop comprehensive test plans, test cases, and test data sets.
* Conducted thorough functional, integration, UAT and regression testing for data management solutions.
* Worked with data stewards to gather insights into data requirements, constraints, and validated data accuracy, consistency, and completeness against data standards. Worked with the team to resolve data quality issues.
* Developed and maintained automated test scripts to increase testing efficiency and coverage using Python.
* Conducted daily Defect triage call & ensured the defect life cycle is followed diligently and Jira is updated with correct RCA and generation defect report as part of defect management.
* Identified and reported defects, tracked them to resolution and maintained detailed test documentation.
* Performed data quality assessments, data validation, and data transformations testing.
* Assisted in performance testing and optimization of SQL queries for big Query.
* Actively participated in Agile/Scrum development cycles, providing valuable QA insights.
* Conducted system and performance testing for Reltio MDM platform, ensuring data integrity and compliance with business requirements.

# Employer: Cognizant, Compunnel

**Client: CVS Health, Richardson, TX August 2021 – Dec 2022.**

# QA Technical Test Lead Project:

**Domain Data Management**

* Performing Test Management, test Planning /Strategy, Estimation, Reporting and Defect Management.
* Managing the project team 20+ and responsible for the test deliverables.
* Monitoring project activities and making timelines adjustments as needed.
* Collaborated with the development team to plan project sprints.
* Provide Estimations/Test Plans (Projects, Governance items & Rational)/Test Scenarios/Test Cases. Make vital decisions and drive decision making across projects.
* Performed functional, regression, and performance testing of Reltio APIs using Postman to validate that they perform the intended operations correctly and produce the expected results, including data mapping, transformations, and error handling.
* Developed and maintained postman collections for Reltio API’s, including request configurations, headers, parameters, and authentication settings, ensuring requests and response against expected outcome.
* Set up test data in Reltio Environment to simulate the real-world scenarios and test cases using Postman. It involved creating sample master data records, defining user roles and permissions, and setting up test environments for different testing purposes.
* Conducted end-to-end testing of Reltio Data Management Platform, ensuring the accuracy, reliability, match merge process and executed comprehensive test cases to validate Reltio configurations, and data workflows, ensuring compliance with business requirements and industry standards.
* Conducted performance testing of Reltio APIs running on GCP using Locust load testing tool to evaluate their responsiveness, scalability, and resource utilization under various load conditions. Measured response time, throughput, latency, and error rates to identify performances bottlenecks scalability limitations and optimize opportunities.

# Employer: Compunnel

**Client: CVS Health, Richardson, TX July 2021 – Dec 2022.**

# QA Technical Test Lead

**Project: 3PY Migration to Big Query**

* Performing Test Management, test Planning /Strategy, Estimation, Reporting and Defect Management.
* Managing the project team 20+ and responsible for the test deliverables.
* Monitoring project activities and making timelines adjustments as needed.
* Collaborated with the development team to plan project sprints.
* Provide Estimations/Test Plans (Projects, Governance items & Rational)/Test Scenarios/Test Cases. Make vital decisions and drive decision making across projects.
* Managed the resources and capacity planning for projects.
* Created the dummy data in Big Query to test the migration of data from Snowflake to big Query.
* Converted the SQL scripts from Snowflake to Big Query.
* Worked with data stewards to gather insights into data requirements, constraints, and validated data accuracy, consistency, and completeness against data standards. Worked with the team to resolve data quality issues.
* Involved in installation, configuration, using Airflow - DAG and GCP Cloud composer.
* Involved in integrating various frameworks to build data pipelines in big query.
* Understanding and analyzing the existing SQL codes to identify the Tables and Columns for data migration.
* Performed data validations for data quality, data transformations, data profiling in big query and GCP.
* Have used Airflow to run the Dag and load the data into Big Query and Snowflake. Verified code versions in GIT.
* Involved in Migrating data between Snowflake to Big Query GCP Bucket.
* Performed functional, regression, and performance testing of Reltio APIs using Postman to validate that they perform the intended operations correctly and produce the expected results, including data mapping, transformations, and error handling.
* Developed and maintained postman collections for Reltio API’s, including request configurations, headers, parameters, and authentication settings, ensuring requests and response against expected outcome.
* Set up test data in Reltio Environment to simulate the real-world scenarios and test cases using Postman. It involved creating sample master data records, defining user roles and permissions, and setting up test environments for different testing purposes.
* Reduce the cost of defects with early and frequent detection and prevention of Data testing by doing business.
* Worked on importing and exporting data from snowflake, Big Query.
* Defect’s logging, tracking, verifying, and closing the bugs in Jira.
* Involved in creating tasks, defects, and project management in Jira.
* Conducted daily Defect triage call & ensured the defect life cycle is followed diligently and ALM is updated with correct RCA.
* Responsible and active participant for daily project scrum meetings and QA status meetings.
* Worked as primarily liaison with Business, QA, Development teams and vendors for major releases, recreation of customer issues.
* Responsible to coordinate with all the teams, UAT activities, representatives, and downstream users involved in testing for sign off approvals.

# Employer: Cognizant Technology Solutions US Corp

**Client: CVS Health, Richardson, TX March 2021 – July 2021**

# QA Technical Test Lead

**Project: Payer Agnostic (Migration to Snowflake, GCP)**

* Performing Test Management, test Planning /Strategy, Estimation, Reporting and Defect Management.
* Managing the project team 15+ and responsible for the test deliverables.
* Monitoring project activities and making timelines adjustments as needed.
* Collaborated with the development team to plan project sprints.
* Provide Estimations/Test Plans (Projects, Governance items & Rational)/Test Scenarios/Test Cases. Make vital decisions and drive decision making across projects.
* Responsible for overall quality controls (Snowflake), data validations, Key business checks, implementation of Snowflake data flow and Snowflake landing zone/target tables.
* Performed Data validation for Data migration from third Party system to GCP Snowflake Cloud database.
* Verified the data extracts & record counts by bringing both third-party flat files into snowflake and writing left and right join queries to check each attribute match while migrating the data into snowflake.
* Experience in creating tables in Snowflake.
* Involved in installation, configuration, using Airflow - DAG and GCP Cloud composer.
* Involved in integrating various frameworks to build data pipelines in Snowflake.
* Designing the Test Strategy, Test Cases and Test Scenarios as per the ADD and FRD.
* Responsible for validating the business scenarios by checking all member, claims and client data using the business rules during transformation.
* Performed a major role in understanding the business requirements and designing and loading data into Snowflake. Provide walk through to UAT and test results to downstream systems.
* Extensive use of SQL queries to check the data mismatches.
* Performed analysis and cleansing of data and root cause analysis for data mismatches.
* Validated fixed width file format files in GCP bucket to check if the length of each column is correct. Walkthrough to client s on the test scenarios for various releases.
* Conducted daily Defect triage call & ensured the defect life cycle is followed diligently and Jira is updated with correct RCA and defect is tracked against each user story.
* Conducted weekly defect triage call with the third-party team to follow-up and understand the mismatches between the output of extracts.
* Responsible and active participant for daily project status meetings and QA status meetings along with the client, third party team, development managers, developers, and testers.
* Coordinate with all the teams, representatives, and downstream users involved in testing for sign off approvals.

# Employer: Cognizant Technology Solutions US Corp

**Client: CVS Health, Smithfield, RI August 2017 – March 2020**

# Sr Consultant- QA Lead Project: Retail Data Lake

* Performed SIT, E2E, CSFT, UAT, Production parallel run testing based on the requirements surveys completed by the development team.
* Performed the quality controls (Hadoop & Teradata), data validations, Key business checks, implementation of Hadoop ETL flow and Teradata landing zone/target tables.
* Performed Data validation for Data migration from Oracle, Teradata, DB2, Files and XML to Hadoop Ecosystem, Retail Data Lake and Azure Data Lake, Cloud through No SQL databases- Hive.
* Verified the data extracts & record counts using own developed automated UNIX shell scripts.
* Automated the process to validate the transform columns in Managed tables in Hive.
* Automated the process to validate the data in External and Managed tables in RDL.
* Experienced in Data Validation and Backend testing of databases to check the integrity of data and extensively used HQL Queries, Zookeeper to analyze the HDFS data.
* Used YARN to perform analytics on data warehouses.
* Developed Test Cases, Test Plans, Test Execution, Defect Tracking, and Report Generation using Quality Center / HP ALM based on functional specifications.
* Involved in establishing an automated Hadoop Integration testing system.
* Strong experience with different file systems /databases like Oracle, HDFS, Teradata, Files, XML and MS SQL Server to extract and load data using Sqoop and Python and validating the data into Cloud, RDL and Teradata.
* Automated the process to check the third-party file data into Unix to analyze the data issues before loading the data into UNIX.
* Extensively interacting with Hadoop architect, developers, Client, and Business Analyst team to understand the business requirements and Hadoop design document specifications.
* Conducted walkthrough to clients on the test scenarios for various releases.
* Conducted daily Defect triage call & ensured the defect life cycle is followed diligently and HP ALM is updated with correct RCA. Responsible to document Daily Status Report, Test Summary Report.
* Participated in daily project status meetings and conducted QA status meetings along with the client, development managers, developers, and testers.

# Employer: Cognizant Technology Solutions US Corp

**Client: American Family Insurance, Madison, WI September 2016 – July 2017 Sr Consultant - QA Lead**

# Project: Analytics Data warehouse

* Lead a team to provide overall direction for test planning, execution, and follow-up for Activity.
* Extensively interacting with Hadoop architect, developers, Client, and Business Analyst team to understand the business requirements and Hadoop design document specifications.
* Developed Test Strategy, Test Plan, testcases scripts based upon the business requirements documentation (BRD), use case documentations, and functional requirements specification (FRS).
* Performed walkthrough to client to the usage of BRAVO (cognizant Proprietary tool) testing tool.
* Performed Data validation for Data migration from Oracle, DB2, Files, text, JSON, and XML to Hadoop Ecosystem and to No SQL databases- Hive. Verified the data extracts & record counts using BRAVO (cognizant Proprietary tool) and own developed small UNIX shell scripts.
* Performed Data Analysis for all incoming feeds to ETL and collaborated with data stewards and data owners to resolve issues.
* Validated the data load process for Hadoop using the HiveQL queries.
* Automated the process of validating the data from different source systems into HDFS.
* Focused on Data Quality issues/problems that include completeness, conformity, consistency, accuracy, duplicates, and integrity.
* Conducted daily Defect triage call & ensured the defect life cycle is followed diligently and JIRA is updated with correct RCA. Responsible to document Daily Status Report, Test Summary Report.
* Participated in daily project status meetings and conducted QA status meetings along with the client, development managers, developers, and testers.

# Employer: Cognizant Technology Solutions UK.

**Client: Sainsbury, London, UK. November 2015 – August 2016 Sr Consultant - QA Lead**

# Project: CMT R2

* Actively involved in gathering business and technical requirements from client architects.
* Developed Test Plan, Test Strategy, Test Summary, proposal documents and effort estimation for pipeline projects.
* Developed and executed regression testing suite using Automation tool – BRAVO and Platinum.
* Conducted SQL queries and database validations to ensure data accuracy, completeness, and consistency across multiple databases and data sources.
* Conducted performance testing of data warehouses and BI reports, analyzing query performance and resource utilization to optimize data retrieval.
* Conducted meetings with business analysts, developers, and other stakeholders to discuss defects\issues raised in HP/ALM during testing as well as to come up with an approach to resolve/fix them.
* Daily status reporting to client counterparts as well as to Cognizant management.
* Performed daily work allocation to team members as well as guiding them.
* Performed and provided training to end users on data transformation and helped in performing UAT.
* Act as a buddy for the new joiner in the team by providing required knowledge and training to new team members.

# Employer: Cognizant Technology Solutions UK.

**Client: Sainsbury, London, UK. October 2014 – October 2015 Sr Consultant - QA Lead**

# Project: Unified Value Customer (UVC)

* Actively involved in gathering business and technical requirements from client architects.
* Developed Test Plan, Test Strategy, Test Summary, proposal documents and effort estimation for pipeline projects.
* Developed and executed regression testing suite using Automation tool –Platinum tool.
* Performed data profiling and analysis to identify data quality issues using SQL test scripts, anomalies, and inconsistencies, and collaborated with data stewards and data owners to resolve issues.
* Conducted meetings with business analysts, developers, and other stakeholders to discuss defects\issues raised in HP/ALM during testing as well as to come up with an approach to resolve/fix them.
* Daily status reporting to client counterparts as well as to Cognizant management.
* Daily work allocation to team members as well as guiding them.
* Performed and provided training to end users on data transformation and helped in performing UAT.
* Act as a buddy for the new joiner in the team by providing required knowledge and training to new team members.

# Employer: Cognizant Technology Solutions UK.

**Client: Sainsbury, London, UK. March 2014 – October 2014**

# Consultant - QA Lead Project: CMT R1

* Actively involved in gathering business and technical requirements from client architects.
* Preparation of proposal documents and effort estimation for pipeline projects.
* Preparation of Test Plan document, Test Strategy document, Test Summary document etc.
* Meetings with business analysts, developers, and other stakeholders to discuss defects\issues raised during testing as well as to come up with an approach to resolve/fix them.
* Daily status reporting to client counterparts as well as to Cognizant management.
* Involved in preparation of Test Cases and SQL test script to validate data transformations.
* Performed Test execution, defect analysis and logging defects in Rally.
* Daily work allocation to team members as well as guiding them.
* Review of offshore team member’s work before delivering to onsite.
* Act as a buddy for the new joiner in the team. Also provided required knowledge and training to new team members.

# Employer: Cognizant Technology Solutions UK.

**Client: VMWARE, US, Bangalore, India. May 2013 – March 2014 Consultant – QA Analyst**

# Project: Migration

* Preparation of testing documents like test plan, test strategy, test summary, defect triage, etc.
* Monitored job failures, raising defects, and tracking the bugs in salesforce.
* Extensively used tools like Oracle SQL Developer and Toad to validate the data.
* Performed data validation for Informatica Jobs,DAC and data loaded in Oracle.
* Validated Reports developed using OBIEE 9i.
* Meetings with business analysts, developers, and other stakeholders to discuss defects\issues raised during testing as well as to come up with an approach to resolve/fix them.
* Daily status reporting to onsite counterparts as well as to Cognizant management.
* Involved in preparation of Test Cases and SQL test script to validate data transformations.
* Involved in Test execution, defect analysis and logging defects in HP ALM.
* Daily work allocation to team members as well as guiding them.
* Review of offshore team member’s work before delivering to onsite.
* Act as a buddy for the new joiner in the team. Also provided required knowledge and training to new team members.

# Employer: Cognizant Technology Solutions India.

**Client: Wyndham, Bangalore, India. Jan 2013 - April 2013**

# Consultant - QA Lead

**Project: Wyndham Worldwide Corporation**

* Daily communication with onsite counterparts to get understanding of business and technical requirements.
* Preparation of testing documents like –Test Plan document, Test Strategy document, Test Summary document etc.
* Daily work allocation to team members.
* Preparation of Test Cases and SQL test script to validate data migrations in Teradata.
* Testing OBIEE reports from 9i to 10.
* Test execution, defect analysis and logging defects in Quality Center.
* Meetings with business analysts, developers, and other stakeholders to discuss defects\issues raised during testing as well as to come up with an approach to resolve/fix them.
* Review of offshore team member’s work before delivering to onsite.
* Daily status reporting to onsite counterparts as well as to Cognizant management.
* Act as a buddy for the new joiner in the team. Also provided required knowledge and training to new team members.

# Employer: CGI, India.

**Client: Bell Canada, Bangalore. Feb 2012 – Jan 2013**

# Consultant - QA Lead

**Project: Bell Care EDW Data Warehouse**

* Guiding and allocating work to testers in the team.
* Daily communication with onsite coordinator to understand the requirements.
* Responsible for writing Teradata SQL test scripts based on requirements given in mapping and business requirement documents.
* Loading of test data using Informatica Jobs and UNIX scripts through cronjobs and Informatica Jobs.
* Responsible for writing and executing the System test cases and Functional test cases.
* Defect analysis, Defect logging as well as follow up with the development team to get it fixed and retest them.
* Acquired good knowledge in Informatica, Teradata, Quality Center, and UNIX.
* Helped team members analyze and resolve the issues in development of ETL jobs.
* Prepared required documents like –Test Plan document, Test Strategy document, Test Summary document etc.

# Employer: CGI, India.

**Client: Bell, Canada, and Bangalore. Dec 2009 – Jan 2012 Consultant - QA Analyst**

# Project: Tapestry

* Daily communication with onsite coordinator to understand the requirements.
* Responsible for writing Teradata SQL test scripts based on requirements given in mapping and business requirement documents.
* Responsible for setting the Teradata and Informatica test environment.
* Loading of test data using Informatica and UNIX scripts.
* Responsible for writing and executing the System test cases and Functional test cases.
* Defect analysis, Defect logging as well as follow up with the development team to get it fixed and retest them.
* Involved in weekly QA meetings, project meetings, walkthroughs, and reviews on a regular basis.
* Acquired good knowledge in Informatica, Teradata, Quality Center, and Mainframe.
* Helped team members analyze and resolve the issues in testing of ETL jobs.
* Prepared required documents like –Test Plan, Test Strategy, Test Case, Test Summary document etc.