

Samrat Saha
Senior SW Test Lead Engineer
samrat.saha141988@gmail.com
Mobile No: +91 - 9886334563

Professional Summary

- 8.5 years of strong experience in **ETL Testing, BI Testing, Big Data Testing**.
- ISTQB Certified Testing professional and Completed **Post Graduate Diploma in Data Science** from IIIT-Bangalore (Upgrad).
- Strong Working experience on **Big Data Technologies-HDFS, Hive, Spark, Scala HBase and Oozie**.
- Strong understanding of the principles of Data Warehousing.
- Experience in **E2E ETL Testing, Testing of BI Reports, Migration Testing**.
- Have good Working Knowledge on **API testing (REST)** and **REST API Automation testing** using with Postman.
- Strong working experience on Automation Scripts using **Unix Shell Scripting**
- Received multiple appreciations from client for Quality of work and Process improvements.
- **Built multiple custom in-house accelerators** to ensure quality of deliverables.
- Team Player with good communication, analytical and inter-personal skills.
- Experienced in Managing Team, Mentoring and Nurturing – New teams and team members.
- Proven ability to interact with end-users, managers and technical personnel
- Ability to work with tight deadlines and open to learn new technologies.
- Possesses versatility to adapt to new technologies, analytical and reasoning skills. Also a quick learner and a good team player and have experience of working and communicating Directly with Client.

Skills Profile

| | |
|----------------------------------|--|
| Primary Skills | Big Data Testing, ETL Testing, BI Testing, API Testing |
| Databases | Teradata 13.0, SAP HANA, Oracle 10g, SQL Server |
| Big Data Technologies | Hadoop, Hive, HBase, HDFS, Spark, Scala |
| Scripting Languages | Shell, Python |
| Defect Management Tools | HPQC & ALM, Radar, Espresso |
| Performance Testing Tools | JMeter |
| Operating Systems | Windows XP, Windows 7, Mac OS |
| Testing Methodologies | Waterfall and Agile methodologies |

Project Contributions Overview

- Participating in Requirements, Data Architecture Analysis, Project Test planning & Test strategy.
- Experience in Efforts estimation, Scheduling and Task allocation and Team management.
- Involved in conducting team meetings internally and with client.
- Finding high-level testing scenarios and writing test objective matrix and test cases according to them.
- Uploading the test cases to ALM/QC/Radar, managing & executing them.
- Generating requirement traceability matrix to verify all requirements are covered.
- Performing Functional, System and UAT testing.
- Performing E2E ETL Testing and involved in BigData Testing.
- Verification of data marts, dimension and fact data in the marts and also experience in migration testing.
- Experience in various s/w testing types like GUI Testing, Integration Testing, Functional Testing, User Acceptance Testing including multi browser testing of the components.
- Raising defects if any and tracking the defects.
- Providing knowledge transfer to other team members if required.
- Communicating with development and support team if required.
- Generating Test summary report of the project.
- Participating in Defect Triage calls.

Education

| <i>Educational Record</i> | | | | |
|----------------------------------|------------------------------|---------------------------------------|-------------------------------------|----------------------------------|
| <i>Course of Study</i> | <i>Specialization</i> | <i>Name of University</i> | <i>Address of University</i> | <i>Year of Completion</i> |
| MCA | Computer Applications | Visvesvaraya Technological University | Karnataka | 2012 |
| BCA | Computer Applications | West Bengal University of Tech. | West Bengal | 2009 |
| 12th Standard | Computer Science | CISCE | West Bengal | 2006 |
| 10th Standard | Computer Science | CISCE | West Bengal | 2004 |

Professional Organizations

| <i>Organization's Name</i> | <i>Designation</i> | <i>Dates of Employment</i> | | <i>Location</i> |
|---|-------------------------------|--------------------------------------|------------------------------------|------------------------|
| | | <i>From (DD-MON-YYYY)</i> | <i>To (DD-MON-YYYY)</i> | |
| Visa Inc. | Senior SW. Test Lead Engineer | 06-Nov-2017 | Till Date | Bangalore, Karnataka |
| Capgemini Technology Services India Limited | Consultant | 23-Nov-2015 | 03-Nov-2017 | Bangalore, Karnataka |
| Cognizant Technology Solutions | Programmer Analyst | 07-Feb-2013 | 19-Nov-2015 | Bangalore, Karnataka |
| Console Management Consultants Pvt.Ltd. | Software Engineer | 01-Aug-2012 | 31-01-2013 | Kolkata, West Bengal |

Professional Experience

| | |
|--|--|
| Organization Name | Visa Inc. |
| Client Name | Visa |
| Project Name | Confidential |
| Project Duration (From & To in Month/Year Format) | November-2017 to Till Date |
| Role/Title | Senior Software Test Lead Engineer |
| Work Location | Bangalore, Karnataka |
| Project Description | <p>The Objective of the project is to iteratively change the existing Data Platform to achieve a centralized, integrated, enterprise-wide repository that can serve as single source of truth.</p> <p>It also involves tool for boarding merchants to Cardinal for 3DS 2.0 and modules involving Payer Authentication, Terminal Management and Reporting.</p> |
| Responsibilities | <ul style="list-style-type: none">• Involved in Requirements Analysis.• Involved in preparation of Test Plan and Test strategy• Experience in Establishing, creating and Executing the testing strategy at team level• Review of deliverables like test cases, Test scripts and Reports and Traceability Matrix.• Involved in ETL (Extraction, Transformation and Loading) testing, Tableau Report testing and Regression testing.• Analyzing and testing the facts and dimension tables.• API Testing on the API's involved in Addition, Updating, Deletion, Management and File Upload.• Testing MBDA Versions for Respective Projects involving Payer Authentication Module, Terminal Management and Reporting Module.• Taking a "hands-on" role in both the creation and execution of automated test cases• Functional, non-functional, integration and regression testing of portfolio of products.• Also Involved in Platform Migration (Cloudera to Hortonworks) and Report Migration Projects (Oracle to Hadoop)• Investing appropriately in process changes, automation, tools etc. to reduce, improve and simplify the overall testing effort for the product• Involved in building of multiple custom in-house accelerators using Python and Shell Scripting to ensure quality of deliverables. |
| Operating Systems | Windows, Mac |
| Database, Tools and Utilities | Hive, Spark, Scala, Oracle, Rally , Hue, MySQL, Tableau, AtScale |
| Achivements | <p>Owner of 2 Trade Secrets-</p> <ol style="list-style-type: none">1. Spark based Cluster to Cluster Automated Aggregate Comparison.2. Self Learning machine learning based Data Comparator with segmenting approach. |

| | |
|--|---|
| Organization Name | Capgemini Technology Services India Limited |
| Client Name | T-Mobile (USA) |
| Project Name | TMO - Titan Projects (T&M) |
| Project Duration (From & To in Month/Year Format) | November-2015 to Till Date |
| Role/Title | QA Lead |
| Work Location | Bangalore, Karnataka |
| Project Description | T-Mobile US, Inc. is a United States Wireless networks operator. It provides wireless voice, messaging, and data services in the United States. The project is being made to extract the data from all billing systems with respect to subscribers and provide the consolidated scorecard company wide. |
| Responsibilities | <ul style="list-style-type: none"> Involved in Requirements and Data Architecture Analysis Involved in preparation of Test Plan and Test strategy Efforts estimation, Scheduling and Task allocation. Involved in conducting team meetings internally and with client. Review of deliverables like test cases, Test scripts and reports and Traceability Matrix Involved in ETL (Extraction, Transformation and Loading) testing, ReportInfo/BO Reports testing and Regression testing. Analyzing the Pig Scripts and comparing the logic as per S2TM. Working with HBase to perform SD1/SCD2 Incremental Data Validations Generating Reports and tracking the bugs using Bug Tracking Tool. Review the defects while logging to the defect tracking system. Involved in Client meetings and conducting internal review/status meetings. Involved in building of multiple custom in-house accelerators to ensure quality of deliverables. |
| Operating Systems | Windows, UNIX |
| Database, Tools and Utilities | Hive, HBase, Pig, Teradata 13.0, Oracle, HPQC, Hue, Ambari, SQL Server 2014, BO |

| | |
|--|--------------------------------|
| Organization Name | Cognizant Technology Solutions |
| Client Name | Apple INC. (USA) |
| Project Name | iTunes – ESL MESA |
| Project Duration (From & To in Month/Year Format) | May 2015 – November 2015 |
| Role/Title | QA Analyst |
| Work Location | Bangalore, Karnataka |

| | |
|--------------------------------------|--|
| Project Description | Apple Applications such as Charts and Piano require enrichments of Billing Tables (JMS, SAGA and ITS_Billing table) data by joining with other tables. These enrichments (joins) are occurring multiple times. Since join operations are relatively expensive in Hive, the goal is to create a table that has the enriched columns in an intermediate layer called Enterprise Semantic Layer (ESL) that can meet the requirements of all downstream processes source tables. The objective is to eliminate dual storage of the same transactions data and to have consistent definition of transformed attributes. |
| Responsibilities | <ul style="list-style-type: none"> • Developed Automation Script using UNIX Shell Scripting and XCode(GUI) to Validate 5 Million Records between Source and Target in Hive Database. • Developed Automation Scripts on automating Test Case Execution, which performed automated execution of Test cases written in a comma, separated file with defined flag details. • Prepared Test cases for the Enriched as well as Existing Columns as per the Business Logic. • Executed the Test Cases in Radar and tracked the defects in Radar. • Help Project Management with LOE for QA. • Trained other team members in Automation Scripting. • Rendered help to other Team Members in troubleshooting Errors. |
| Operating Systems | MAC OS |
| Database, Tools and Utilities | Hive, Radar, Espresso, UNIX Shell Scripting, XCode |

| | |
|--|---|
| Organization Name | Cognizant Technology Solutions |
| Client Name | Apple INC. (USA) |
| Project Name | Adhoc Reporting |
| Project Duration (From & To in Month/Year Format) | October 2014 – April 2015 |
| Role/Title | QA Analyst |
| Work Location | Bangalore, Karnataka |
| Project Description | A self-service tool designed to enable faster decision-making by providing a more efficient way of generating a subset of common requested historical data. Adhoc Reporting Tool - a MAC addin for Excel to Generate Adhoc Reports from Cubes from available the Dimensions and Measures according to users Choice. The Dimensions and Measure were related to Apple Sales, Finance, SDM and Inventory Data. |
| Responsibilities | <ul style="list-style-type: none"> • Preparation of Test Plan Document. • Involved in Data and Functional Testing and Performance Monitoring. • Analyzing the Application and Preparing Test Cases based on the Functionality of the Query Builder Tool. • Prepared SQL Queries to validate the data between the Report and the SAP HANA and Teradata. • Automated the Comparison of Data between the Report and the Database using the Automation tool Platinum. • Perform basic load and stress testing on your web application environment using Apache JMeter and build a test plan and run tests against a web server. |

| | |
|--------------------------------------|--|
| | <ul style="list-style-type: none"> • Executed the Test Cases in Radar and tracked the defects in Radar. • Participated in Defect Triage calls directly with Client. • Preparation of Test Summary Report. |
| Operating Systems | MAC OS |
| Database, Tools and Utilities | Teradata, SAP HANA, Radar, Espresso, Excel, Platinum |

| | |
|--|---|
| Organization Name | Cognizant Technology Solutions |
| Client Name | Apple INC. (USA) |
| Project Name | GBI Hadoop Core QA (HIO-MIO Migration) |
| Project Duration (From & To in Month/Year Format) | August 2014 – September 2014 |
| Role/Title | QA Analyst |
| Work Location | Bangalore, Karnataka |
| Project Description | Objective of this project is to migrate all Hive IO (HIO) tables into Merge IO (MIO) tables and RC format into ORC format of all CORE tables and downstream. Also the objective was to capture, monitor and report the Performance statistics for the HIO and MIO tables. Project also involved Validation of Data between Teradata and Hive for the Migrated Tables. |
| Responsibilities | <ul style="list-style-type: none"> • Developed Automation Script using UNIX Shell Scripting to validate Data of Full Table for Small Tables(Data<=1Million) between Teradata and Hive and between Hive to Hive. • Developed Automation Script using UNIX Shell Scripting to validate Data for Large Tables (Data>=10 Million) using a Segmentation Approach between Teradata and Hive and between Hive to Hive. Segmentation Approach Compares 3 Million Data from Top, Middle and Bottom between the Tables. • Prepared Test cases for Data Validation and Performance Testing for HIO-MIO Tables • Prepared SQL Queries to validate the data in both source and target tables. • Validating the data between the HIO and MIO Tables after Migration. • Executed the Test Cases in Radar and tracked the defects in Radar. |
| Operating Systems | MAC OS |
| Database, Tools and Utilities | Hive, Teradata, Unix, Radar, Espresso, UNIX Shell Scripting, XCode |

| | |
|--|---|
| Organization Name | Cognizant Technology Solutions |
| Client Name | Loblaws INC. (Canada) |
| Project Name | IT-QA Services Production |
| Project Duration (From & To in Month/Year Format) | September 2013 – July 2014 |
| Role/Title | QA Analyst |
| Work Location | Bangalore, Karnataka |
| Project Description | ETL Testing project, which primarily involved testing source data extraction, business transformation logic validation and target table loading validation for Teradata and SAP HANA systems and Report Testing involving SAP Business Objects. |

| | |
|--------------------------------------|---|
| Responsibilities | <ul style="list-style-type: none"> • Prepared Test cases from design/mapping documents. • ETL data validation testing from Teradata Landing/Core to SAP HANA system. • Data validation from SAP HANA to file data. • Execution of BODS Jobs & Validating the data as per Transformation logic. • Prepared SQL Queries to validate the data in both source and target tables. • Executed the Test Cases in QC and tracked the defects in QC. • Developed UNIX Shell Scripts for Complete Data Validation between Files and Teradata Database, which helped in savings of \$8960, and 160 Hours. • Was also Involved in SAP HANA Test Automation PoC involving the Following- <ol style="list-style-type: none"> 1. ETL sample data validation testing from existing SAP source systems (ECC) to SAP HANA replication Layer. 2. SAP HANA Replication Layer to SAP HANA Transformation Layer. 3. SAP HANA Transformation Layer to Validation of Logical Views 4. ETL data validation testing from Teradata Landing to Teradata Core tables. • Data Comparison of BO Reports. |
| Operating Systems | Windows, UNIX |
| Database, Tools and Utilities | Teradata 13.0, SAP HANA, Shell Scripting, Platinum, SAP BO, HPQC |

| | |
|--|---|
| Organization Name | Cognizant Technology Solutions |
| Client Name | Xerox Corporation (USA) |
| Project Name | Affiliated Computer Services (ACS) |
| Project Duration (From & To in Month/Year Format) | May 2013 – August 2013 |
| Role/Title | QA Analyst |
| Work Location | Bangalore, Karnataka |
| Project Description | Project involved Reports comprising Hospitals and Patients information, Medical Bill Processing, Claims, Bed Availability, manage hospital operations, track patient care Included testing of different data sets (different regions, periods of time) and usability testing and also Included comparison between Summary and Detail report data. |
| Responsibilities | <ul style="list-style-type: none"> • Involved Requirement gathering, Test design preparation & execution. • Involves Semantic View/OLAP validation against Report. • Write your own SQL query on the target database and compare the output with the report data. • Involved verification of drilling, sorting and export functions of the reports. • Execution of Reports with the specified filters. • Defect Management - Logging and following up defects in Clear Quest. |
| Operating Systems | Windows |
| Database, Tools and Utilities | Oracle 10g, Cognos 10 |