## Rajan Adhikari

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**Sr. QA Engineer**

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## Experience Summary

* Over 7+ years of experience as QA Test Engineer involved test design, test development and implementation of test procedures in manual, Data Warehousing and Integration Projects.
* Experience in Quality Assurance and Software Testing of various business applications in Client/Server environments and Data Warehousing solutions.
* Strong knowledge of Software development Life Cycle and Software Testing Life Cycle and highly proficient in  Waterfall Agile methodology.
* Expertise in Writing, Executing and Maintaining Test Plans, Test Strategy, Test Procedures, Use Cases, Test cases.
* Expertise in QA methodologies, Test strategy, Software Development Life Cycle (SDLC) and Defect life cycle using Different ALM tools like AP ALM and Jira and Expertise in in **Defect management**, **Bug tracking**, **Bug Reports** and generating the graphs
* Apply test methodology to all project work within SDLC and STLC process methodologies - Agile, Waterfall
* Working knowledge on ICD9/ICD10, EDI transactions, 4010/5010HIPAA versions
* Extensively used ETL methodology for supporting data extraction, transformations and loading, in a corporate-wide-ETL Solution using Informatica, Datastage and Ab Initio and SSIS.
* Involved in Manual and Automated Testing of applications on UNIX and Windows Environment for both Server side and Data warehousing Applications and Mainframe testing.
* Have solid experience on database query tools such as SQL Developer and TOAD SQL and SQL Server Management Studio.
* Experience with WebServices, SoapUI, Rest tools, XML, request and response
* Experience on UNIX commands and Shell Scripting. Involved in testing the batch jobs using UNIX.
* Experienced in Functional testing, Performance testing, Load testing, Integration testing, System Testing, Regression testing, Black Box /Grey Box testing, Stress Testing, UAT, Smoke Testing, etc.
* Strong experience in preparing test environments, documents, executing and analyzing the results.
* Worked with wide variety of data sources like Relational Databases, Flat Files,xml files, EDI files, etc
* Have experience in testing reconcile (initial) and delta (daily) loads.
* Have tested several complex reports generated by different BI toolsincluding dashboards, summary reports, master detailed, drill down and score cards.
* Involved in preparation of Requirement Traceability Matrix (RTM), Defect Reports, and Periodic Status Reports.

**Technical Skills:**

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| ETL Tools | Informatica 9.x/8.x, DATASTAGE, Ab Initio, SSIS |
| Testing Tools | Quality Center, ALM 11.0,Load Runner, QTP, Jira |
| Database | Oracle 9i/10g,11g, SQL Server 2008/2012, DB2, MS Access, Teradata 13.0,Netezza, 1010Data |
| BI /Reporting Tools | Cognos, OBIEE, Microstrategy, SSRS/SSAS, Qlik View |
| Job Scheduling Tools | Control M, Autosys |
| Languages | XML, SQL, UNIX Shell Scripting, PL SQL, T-SQL |
| SDLC/STLC | Agile, Scrum, Waterfall, V model. |
| Operating Systems | Windows XP, Window 2003, Windows 2007, Windows 8, Linux in Red Hat and UNIX(AIX). |

## Project Experience

**UHC Eden Prairie, MN Feb 2014– Jun 2015**

**Sr. QA Engineer**

**Responsibilities:**

* Analyzed Business Requirement Document, Software Design Document, Software Requirement Specification and Functional Requirement Document.
* Closely went through and worked on all the stages of SDLC for this project and designed and executed Functional, Integration, Regression and System (End to End), Browser Compatibility, Backend (Database) Testing.
* Created and maintained requirements traceability matrix (RTM) to ensure that all requirements are traceable from top to bottom on the basis of test plan.
* Closely went through and worked on all the stages of SDLC for this project and designed and executed Functional, Integration, Regression, System (End to End) and Backend (Database)
* Prepared Test Scenarios by creating Mock data based on the different test scenarios.
* Validated data from front-end systems to the backend databases.
* Extensively followed agile methodology to achieve the desired results.
* Participated in daily SCRUM meeting and SPRINT planning, review and retrospective meetings.
* Assigned critical performance Defects to the development team using HP ALM Quality Center.
* Weekly meeting with the management team and share the Status Report on the weekly basis.
* Documented the business requirements, developed test plans, test cases created for the database backend testing and to test database functionality.
* Responsible for the testing of an enterprise data warehouse and business intelligence application.
* Backend testing of the Database by writing SQL and PL/SQL scripts to test the integrity of the application , Oracle databases and SQL Server databases.
* Involved in testing of the extracting 5010 HIPAA Outbound Transactions (835, 277) from Mainframe database.
* Wrote SQL queries for each Test case and executed in SQL Developer/ SQL Server Management Studio to validate the data between Enterprise Data Warehouse and Staging Tables.
* Written Complex SQL Queries using different joins, set operators, aggregate and analytical functions.
* Mainframe Based Claims system Testing. Using Cobol, JCL, DB2.
* Extensively written SQL to confirm the data transfer from source to target.
* Tested the PL/SQL package that loaded data into staging area from the source database
* Experienced in writing SQL Statements in database to make sure whether the data is populated in Data Mart/Data warehouse According to Business Rules.
* Responsible for the verification of data completeness, data transformation, data quality and data integrity as per the logical design document
* Performed extensive Data Validation, Data Verification against Data Warehouse
* Developed ETL test cases for various lines of businesses based on ETL mapping document.
* Validated ETL test data for all transformation rules and covered all the scenarios required for implementing business logic.
* Tested the ETL process for both before and after data cleansing process.
* Extensively used ETL methodology for testing and supporting data extraction, transformations and loading processing in a corporate-wide-ETL Solution using Informatica and SSIS.
* Ran batch jobs in a box using AUTOSYS
* Experienced in using Unix Shell Scripting.
* Involved in testing HIPAA EDI Transactions and mainly focused Enrollment, Eligibility Transactions
* Hands on experience in handling EDI 837, 834, 835 files from the Clients and clean up the data based on the requirements
* Validated EDI Claim Process according to HIPAA compliance
* Verified and validated HIPAA compliant X12 format for both inbound and out bound healthcare EDI transactions as per ICD9/ICD10
* Tested the Membership and claims files as per the HIPAA compliance.
* Work closely with EDI to ensure accuracy in data transmissions and shared processes.
* Proficient in validating the transformation and edits on claims as required.
* Created Various Hierarchies which allows drilling onCognos.
* Tested Public objects like Consolidations, Custom Groups, Metrics, Prompts, and Filters according to the report requirements using Cognos.

Environment:HP ALM11.0, Informatica Power Center, Jira, SSIS, HIPAA, Mainframe, SQL Server 2012, SQL Server Management Studio, MS Access, Windows 2007/2008, PL/SQL , DB2, Agile, Oracle 11g, ODI, UAT, Autosys jobs, Qlick View, Cognos, Unix

**Intermountain Healthcare Salt Lake City, UT Apr 2013 – Jan 2014**

**QA Engineer**

**Responsibilities:**

* Developed Plan Test Strategy document based on project requirements
* Developed Test Plan based on the Functional Specification Requirements for the Project and Releases, Written Test Scenarios and Test Cases based on the Functional and Business requirements for the Project and Releases
* Review Test Scenarios and Test Cases in sprint planning meeting with scrum team and participated in daily scum meeting, Sprint retrospective and Sprint review meetingwith Developers, product owner , Scrum master, and Project Manager/Release Manager
* Developed and executed test cases in HP ALM
* Data Loads from Source to target through ETL Tool Informatica, and Autosys scheduler tool.
* Data Validations includes File Validations, Table Validations, DDL Validations in Database and Unix
* Carried out Test Execution in different cycles of Integration, System, Sanity
* Tested the ETL process for both before data validation and after data validation process. Tested the messages published by ETL tool and data loaded into various databases
* Strong in writing complex SQL queries to profile and analyze the data.
* Used SQL queries & Join operations to Test database tables.
* Executed the developed Test Cases and Test Plans and also coordinate with the development team to run the workflows if needed and write the SQL scripts to test the test cases.
* Involved in ETL Mapping Design and Performance tuning to Load mapping process and Capturing results
* Analyzed the wait time with response to request for mainframe application.
* Preparation and Execution of Test Plans, Test Cases for the mappings developed through the ETL Informatica tool in the QA environment
* Performed Analysis to check if EDI Type trees for transaction sets 834, 837, 835 are HIPAA Complaint.
* Developed advanced SQL queries to extract, manipulate, and/or calculate information to fulfill data and reporting requirements including identifying the tables and columns from which data is extracted.
* Participated in offshore calls on daily development activities and coordinate with the developers and QA in there day to day testing efforts.
* Performed Smoke/Shakeout testing, Functional testing, User Acceptance testing, and Regression testing for every Release
* Working on EDI transactions (810, 820,850,856,870) for Inbound and Outbound IDOC’s interface for Integration and system testing.
* Identified defects during testing and open the defect or problem log in ALM and assigned to the associated person
* Created UAT test plan documents, strategy, test cases, executed UAT test scripts, and created test reports using ALM.
* Execute Automation scripts for regression testing.
* Used ALM to raise the defects and to manage defect management process.
* Written SQL scripts for performing data validations as well as for inserting test data into the tables.
* Tested the entire compliance reports generated using Cognos BI tool by validating the data in the report against the database according to the requirement specifications using SQL scripts.
* Written complex SQL queries using Case Logic, Intersect, Minus, Sub Queries, Inline Views, and Union in Oracle.
* Performed end to end testing by coordinating with various teams to make sure that the data flow was smooth starting from the source to the ultimate target.
* Tracked all the defects to closure by interacting with the development team.
* Conducted and co-ordinated with integration testing and regression testing.
* Manage the testing process, schedule batch tests, log and track defects using Quality Center.
* Used **HP ALM Quality Center** as test management tool to manage and organize Requirements Coverage, Test Cases, Test Scripts and Defect Management.
* Worked with the Development team to understand the source to target mapping document and accordingly helped them
* Validated the production tickets assigned and once confirming the defect assigned it to the developer for fix.

Environment: Informatica Power Center 8.6/9, ODI, Oracle 10g/11g,Unix, Mainframe, QTP, HP Quality Center 10/ 11 Agile/Scrum, Rally, SQL, PL/SQL, Cognos, DB2, Flat Files, Teradata 13.0, , UNIX

**Russell Investment Group, Seattle, WA Jan 2012 – Feb 2013**

**QA Test Engineer**

**Responsibilities:**

* Analyzed requirements for Fixed Income Forwards, Interest Rates derivatives, traded loans, Reference data and other various systems.
* Lead and/or participated in the creation, distribution and walkthrough of software test cases, scripts and other documents surrounding testing activities and ensure that all testing activities and deliverables are conducted/produced in compliance with company standards.
* Prepared Test Cases and Test Plans for the mappings developed through the ETL tool from the requirements.
* Debugging and Scheduling ETL Jobs/Mappings and monitoring error logs.
* Involved in the Regression and Functional Testing using QTP.
* Involved in preparation User defined functions using QTP
* Prepared Test Scenarios by creating Mock data based on the different test cases.
* Involved in extensive data validation using SQL queries and back-end testing.
* Created and designed logical database schema for data warehouse (Teradata) environment to prepare for ETL.
* Checked the naming standards, data integrity and referential integrity.
* Exported the Report data from oracle and Teradata warehouse to Excel and validated using formulas.
* Tested data based on fixed income products like mortgage-backed securities and asset-backed securities.
* Referred models to quantify the basis and credit risk of the fixed income portfolio.
* Tested various ETL Scripts to load the data into Target Data Warehouse (Oracle / Teradata)
* Validated Data in Database using SQL queries (Teradata, Oracle)
* Used the Teradata PMON tool in monitoring the queries
* Familiar with Teradata Load and Unload utilities
* Created SQL compare statements to validate Actual result with the Expected Results.
* Validated T-SQL objects like stored procedures, functions, triggers.
* Extensively used Informatica Workflow Manager to run the workflows.
* Monitored the session logs/log files in Informatica Workflow Monitor.
* Extensively involved in System testing & Regression testing and Integration testing

Environment: Oracle 11g, InformaticaPower Center9.1, SQL, PL/SQL, Rational Clear Quest, Clear Case, T-SQL, HP Quality Center, QTP 10.0, Toad, Teradata 12.0, Teradata SQL Assistant 12.0

**AT&T, Atlanta, GA                                                      July 2009-Oct 2011**

**Role: Backend Data Tester**

**Responsibilities:**

* Interacted with business users to analyze the business requirements and system functional specifications and prepared Requirements Traceability Matrix (RTM) documents to map the business requirements with the functional and technical requirements and test scenarios.
* Attended daily Scrum Stand-ups for QA updates and defect status.
* Tested the source data for data completeness and data correctness.
* Tested the PL/SQL package that loaded data into staging from the source database.
* Tested the ETL process that loaded the data into target database after performing all the transformations according to the business requirements.
* Worked with Data Warehousing developers who extensively used DATASTAGE, to design mapping to move data from source to target database-using Stages to do the functionality.
* Created ETL test data for all ETL mapping rules to test the functionality of the DATASTAGE packages
* Did testing on multiple DATASTAGE packages for data validation and data conditioning.
* Writing complex SQL queries for checking the counts and for validating the data at field level.
* Prepared sample test data by inserting data into staging tables.
* Prepared all the test scenarios and shared across the team.
* Involved in testing all the reports that were generated through Microstrategy.
* Tested the format of the reports according to the specifications provided and also compared the data in the reports with the backend datamart through SQL and also using excel for data comparison.
* Involved in end to end testing of the entire process flow starting from the source database to the target datamart to the reports by considering all possible scenarios.
* Co-ordinated with the offshore counter-part for testing needs and also gave KT sessions on the business requirements.
* Was responsible for maintaining all the test cases and defects in HP Quality Center for all the team members to review.
* Was the point of contact for the QA team for escalations and lead the bug triage meetings.
* Validated the production tickets assigned and once confirming the defect assigned it to the developer for fix.

Environment: Teradata, HP Quality Center 10, Microstrategy, Oracle 10g, DATASTAGE, SQL, SQL server Management Studio, UNIX, Shell scripting,

**United Health Group, Rocky Hill, CT Aug 2007 – June 2009**

**Quality Assurance Analyst/ ETL Tester**

**Responsibilities:**

* Developed ETL Test Plans, Test Strategies and Test Cases.
* Coordinated with Business Users to understand business needs and implement the same into a functional Data warehouse design.
* Interacting with the users and troubleshooting the problems involved with the development of stored Procedures, triggers and problems related to the privileges.
* Used Informatica Workflow Manager to run the workflows/mappings and monitored the session logs in Informatica Workflow Monitor.
* Extensive testing on the Performance of the Stored Procedures in PL/SQL.
* Developed UNIX shell scripts to format the session log files and to extract the information from error logs.
* Used Datastage director for running the Datastage jobs and validated them.
* Involved in testing ETL and PL/SQL batches scheduled by using Autosys
* Tested UI Screens and Reports for cosmetic and data requirements.
* Involved in Usability Testing and coordinating with end users for giving Training on Web Based application.
* Defined and implemented verification and validation processes across the project and manage QA and regression testing environments.
* Tested the web pages, user login pages according to the user security roles and requirements.
* Worked with business team to test thereports developed in Cognos.
* Ensured developers coordinated their efforts in managing and maintaining different application databases
* Tested OLAP cubes to verify and validate the functionality of the reports.
* Used Informatica Workflow Manager for session management, database connection management and scheduling of jobs. Created and Executed Automated Test Scripts.
* Monitored the performance of the reports.

Environment: Informatica Power Center, Ab Initio, Cognos, Oracle 9i, DB2, PL/SQL, Autosys, SQL\*Plus, Quality center, Rational Clear Quest, UNIX, Shell Scripting, Windows XP