**UMA DODDI**

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**Visa: TN Visa and C2C**

**Summary:**

* Big Data and ETL System Analyst with extensive experience in project initiation, conceptual design, requirements definition, database design/modeling, system specifications and documentation, quality assurance/system validation, and implementation.
* Around 15 Years of IT experience in implementing ETL Projects.
* Strong experience in interacting with business analysts and developers to analyze the user requirements, functional specifications and system specifications.
* Experience in Data modeling (logical and Physical), Forward Engineering, and Reverse Engineering & Complete Compare using Erwin 7 and power designer.
* Expertise in design and implementation of SCD - Slowly changing dimensions types (1, 2 and 3) and CDC – Change data capture.
* Worked on Database Analysis and Change management Software in different environments.
* Experience with SDLC using waterfalls, Scrum, Rapid application development and spiral model.
* Knowledge on Various ETL, Reporting, and Database development tools like Informatics, Erwin, Visio, SQL Server, Business Object and Congas and Oracle with strong SQL skills.
* Good Knowledge of Hadoop with hands on experience in working with ECO systems like Hive,Pig,Map Reduce,Sqoop,Oozie,kafka,Zeppelin and Spark.
* Analyzing and designing solutions for large structured, semi-structured, and unstructured data in a distributed processing environment.
* Lead projects from initialization phase from capturing business requirements to final phases of system testing.
* Experienced in End user training, documentation and application and product demos.
* Experience in building a high-performance QA team by hiring, training and mentoring QA engineers.
* Implemented automation frameworks like data-driven and behavior driven.
* Ability to quickly adapt to changing priorities, requests, and environments.
* Outstanding experience in technical documentation.
* Effective team lead/member with excellent interpersonal, analytical, and communication skills.

# Education Profile

Advanced Diploma in Software Engineering, Aptech, India

Masters in Information Technology – Canadian equivalent to Master’s Degree *in Information Technology accredited by WES.*

# Career Achievements

* Worked as I-ADVANCE™ Subject Matter Experts for Test Item Writers and Reviewers for Information and Communications Technology Council (ICTC) (2010)

# Technical Skills

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| --- | --- |
| Software: | Microsoft Office(Word, Excel, PowerPoint, and Access) |
| Operating Systems: | Windows 2000/XP, Unix, Linux |
| Languages: | ASP, Java, Java Beans, RMI, HTML, XML, MS FrontPage, C, C++, SQL, PL/SQL, COBOL, CICS,python |
| Validation Tools | Micro Focus QAD,Quality Center(8.0 & 9.0), HP Quick Test Professional (9.0&10.0), Jira 4.0, Win Runner, Load Runner, Rational Clear Quest |
| Database Environments: | Oracle 9i, Oracle 10g, Oracle 11g, SQL\*Plus, SQL\*Loader, Postgres, Toad, Greenplum |
| Scheduler | Tidal , Control-M |
| ETL & BI Tools | Informatica 8.x/9.x , Cognos , Business Object 4.0,Power BI |
| Modeling Tools | Erwin , Power designer |
| API Tools | Soap UI, Rest API, Postman |
| Big Data tools | Hadoop, Hive, Pig, Hu , OOZIE and Zookeeper, Kafka, Cassandra, Spark, HDFS, Ranger, Ambari, Hive, Zappeline, Spark SQL |

**Professional Experience**

# Project : TechADs Jan 2023 – Till Date

**Client: Bank of America**

**Role: Sr. Computer System Analyst**

# Responsibilities:

* Analyzing, designing and document new or modified QA procedures and standards
* Assisting in the development and implementation of QA metrics for assessing the quality of delivered applications and information systems.
* The management and mitigation of technical risks, ensuring that the solution services can be realistically delivered by the underlying technology components such as
* Hadoop/HDFS, Impala, Hive, Kafka, Oracle Exadata etc.
* Design and develop the Automation Framework for TechADs core SIT and UAT validation
* Validation of the Streaming and the Batch jobs
* Identifying areas for data quality improvement help to resolve data quality problems and recommend measures to prevent recurrences. Participate in the data governance team

# Project : DAP Sep 2021 – Jan 2023

**Client: Dexcom, San Diego,CA Company : CAT Technology**

**Role: Senior Big Data/ETL QA Lead**

The Dexcom Analytics Platform is a collection of data and tools to facilitate access to, and the analysis of, all Dexcom enterprise and field (device) data in one place. DAP is implemented in Google Cloud Platform (GCP). The center of DAP is the Dexcom Data Lake implemented in Google Big Query (server-less analytic database).

# Responsibilities:

* Analyzing the requirements and implementing quality assurance best practices by developing test strategy, test planning and test scenario and test data.
* Defined and developed the data validation scripts as per user stories for DAP pipeline.
* Developing and executing formal test plans and test scripts for quality releases.
* Monitored V&amp;V environments (Dataflows and Airflows) and analyzed the failures and informed the team accordingly.
* Designing the test scenarios using the existing Robot framework using python for the DAP Bulk data pipeline validation.
* Worked related to downloading Big Query data into pandas or Spark data frames for advanced ETL capabilities.
* Experience in spark-based application to load streaming data with low latency, using Kafka and Pyspark programming.
* Perform Data quality analysis and report various data quality issues to stakeholders.
* Monitoring and Training the new team members on the DAP pipeline process.
* Validating Kafka/Pub subscription tokens as needed for the DAP data pipeline validation.

# Project : Workers Compensation April 2020 – Oct 2021

**Client: State Auto Mutual Insurance Company Company : Technumen**

**Role: Role: Senior BigData QA Lead**

# Responsibilities:

* Leading and meaning off-shore of 8 members in the developing and execution of test artifacts for Big Data enterprise warehouse for new LOB – Worker Compensation
* Coordinated and directed QA Testing Effort in planning cross-team. Coordination for testing and providing QA Status and defect reports to various stakeholders as needed.
* Participating and Understanding the data requirements for the validation of the workers compensation LOB for various state ISO certificates.
* Working closely with the architect, internal auditors. Data designers and business counterparts to provide the necessary test data (state exhibits) and test results/documents to get ISO-state approvals for workers compensation projects.
* Attending Scrum of Scrums calls to discuss the potential and resolutions in order to achieve effective and efficient delivery.
* Developed and validated MongoDB using Robo 3t and trained the team members how to use the tool.
* Designed and developed Altrexy workflow to validate webxl and workday extracts
* Storing data files in Google Cloud S3 Buckets daily basis, Using DataProc, Big Query to develop and maintain GCP cloud base solutions.
* Developed Pyspark script to merge static and dynamic files and cleanse the data.
* Guiding team to effectively use the existing automation framework for all the LOB’s and providing input for improvements.

# Project : Reservation Remediation June 2019 – Jan 2020

**Client: Hilton Worldwide, VA Company : TekSystems Inc.**

**Role: Senior Lead BigData QA Tester**

# Responsibilities:

* Analyzed the existing enterprise data ingestion Scala code in stash and conducted meetings with the architects, MDM and data quality team to develop the reservations remediation data cleaning and analytical artifacts.
* Trained QA resources on spark SQL and designed and developed reservation remediation regression test suites.
* Develop summarized Data Governance / Data Quality analysis and dashboard report.
* Defined data protection strategy and procedure for validation for the Hilton customer data.
* Held overall responsibility to plan, develop, coordinate and lead software releases with another team.
* Implemented data quality framework using pandas.
* Assisted Director of Hilton in QA budgeting and hired consultants as needed and planned and coordinated QA sprint stories for automation.

# Project : Enterprise Data hub May 2018 – June 2019

**Client: Valley Bank, Wayne, NJ Company: CAT Technology Inc.**

**Role: Senior ETL Tester / Big Data QA Lead**

# Responsibilities:

* Analyzed the enterprise large data sets and analytical requirements and implemented quality assurance best practices by developing strategy
* Defined the automation testing framework for validation of data extraction, transformation and loading into EDW using Trifacta, Talend and spark SQL
* Developed and executed formal test plans and test scripts for quality releases.
* Defined and tracked QA metrics like defect count by stages and cycles, defect creation and closure rates, test productivity – creation and execution.
* Used power BI to validate the data models like Customer 360 and product.
* Built power bi dashboard to validate the consistency the data
* Used power designer to validate the data models like customer 360 and product and the physical data structures.
* Hands-on contributor to build and enhance solutions to complex technical problems advancing test automation, continuous testing and continuous integration capabilities.
* Performing quality audits across the SDLC phases to ensure Valley National Bank’s specific standards, procedures and methodologies are adhered to in support the bank’s strategic business goals.

# Project : CRM 3.0 Nov 2017 – April 2018

**Client: L’Oreal, New York**

**Company: CAT Technology Inc.**

**Role: Senior Big Data QA Lead**

# Responsibilities:

* Attended daily QA team status meetings to monitor the progress and help the team members achieve the deadline.
* Coordinated with the Client QA manager for source system connectivity for integration end to end testing
* Documented high level Batch and real time processing steps of the project flow
* Participated in analyzing the issues raised by the client QA resource
* Assisted client QA resource in the data profiling and data sensitive

# Project: CGM Cloud-bases enterprise Oct 2016 – Nov 2017

**Client: Dexcom , San Diego,CA**

**Company CAT Technology Inc.**

**Role:** **QA Manager/Hadoop BigData Lead**

# Responsibilities:

* Estimated efforts for the data team and provided direction for the design, development and execution of test strategies in different areas of testing like Environmental, Tools and Functional testing.
* Designed the QA Dashboard concept that is widely used by the whole engineering team to track new feature developments, agile backlog tasks, prioritization of bug fixing as well as bug verification tasks.
* Developed strategy, approach & prioritized testing needs based on given resources & expertise to perform various tests.
* Acted as a liaison within engineering to work closely with other members of the product team to troubleshoot, debug, and resolve a variety of diverse requirements, technical, data generation and test coverage issues.
* Escalate the issues about project requirements (Software, Hardware, Resources) to Project Manager / Sr. Test Manager.
* Attended daily scrum, sprint planning and weekly PA and QA team status meetings to monitor the progress and help the team member achieve the deadline.
* Led various business and technical requirements review sessions with product analysts and the technical design leads
* Established test lab for standardizing effective end to end smoke test and functional testing.
* Worked closely with the other teams to effectively use their products for test data generation and verification and validation process.

# Project: HR Analytics July 2015 –Sep 2016

**Client: ADP , NJ**

**Company CAT Technology Inc.**

**Role: Sr ETL QA Lead /Hadoop Tester**

# Responsibilities:

* Work closely with various teams across the company to identify and solve business challenges utilizing large structured, semi-structured, and unstructured data in a distributed processing environment.
* Analyze large datasets to provide strategic direction to pull and push data in the Hadoop environment.
* Analyzed, designed technical requirements for Big Data analytics platform for ADP Analytics
* Designed integration systems for loading of massive structured and unstructured data for Benchmark Analysis
* Scheduled and participated in the clients requirements gatherings and designed user story requirements as per required.

# Project: HealthCare Dec 2014 –June 2015

**Client: Optum, MN**

**Company CAT Technology Inc.**

**Role: Sr. QA Lead Tester/Hadoop ETL Tester**

# Responsibilities:

* Analyzed, designed technical requirements for Big Data analytics platform for processing Member, Claim and providers data using Hadoop and Hive.
* Designed integration systems for Hadoop and traditional ETL, extraction, transformation, and loading of massive structured and unstructured data.
* Designed aggregate datasets for reporting, dash boarding and ad-hoc analyses.
* Imported and exported data into HDFS and Hive.
* Participated and provided input on story requirements, design, estimation and test approach discussions

# Project: HealthCare Mar 2011 –Nov 2014

**Client: Tufts Health Plan, Boston**

**Company CGI , Halifax**

**Role: Sr. ETL Lead QA Analyst**

# Responsibilities:

Analyzed, interpreted and documented business requirements into TRD and STM for new development and enhancements.

* Provided change options, feasibility, and scope and estimated time for member ETL rewrite projects.
* Participating in the data modeling sessions to understand the data model and providing them inputs based on the existing data to make sure the designed model is technically feasible.
* Lead CIGNA shared admin project from initialization phase from capturing business requirements to final phases of system implementation.
* Designed high level data flow diagrams for slowly changing dimensions (SCD Type1, Type 2 and Type 3) and fact tables loading.
* Partnered with business users in identifying, prioritizing & resolving numerous data issues, created ETL Project Plans, designed summary tables for Congas Cube for Analytics.
* Assisted the Jr.systems analysts in source data analysis and in creation of the functional specification documents.
* Created end user training document and product demos for tufts provider web applications.
* Coordinated with staff for testing, validation, functionality and operational reliability of system platform as per software change requests and predefined business requirements.
* Served as mentor and reviewer to junior Specialists in all areas of data warehousing and ETL.

# Project: Insurance Oct 2010 –Mar 2011

**Client: State Farm Insurance Company Global ERP Solutions**

**Role: QA Lead Analyst**

# Responsibilities:

* Gathered requirements from the client in meetings and formulated systems scope and objectives.
* Documented and interpreted user requirements into design specification
* Provided technical support for change control assessments, Initial software change requests, level of effort, risk/impact and mitigation.
* Identified platform to automate batch jobs using UNIX.
* Designed a highly parallel load of 100+ million records of historical data to bring down load times from over 16 hours to 6 hours.
* Coordinate with the QA team in various system testing phases by resolving the anomalies and ensuring smooth execution of the project plans.

# Project: Health Care Nov 2006 –Sep 2010

**Client: Blue Shield of California**

**Company Adit Mikromatic Technologies Role: QA Analyst**

# Responsibilities :

* Analyzed business and user needs and translation into proper systems requirements specifications.
* Assisted the systems analysts in source data analysis and in creation of functional specification documents.
* Documented detailed definitions on how new applications and enhancements will support business requirements
* Application upgrades, as well as new installation, (database setup and implementation for new customers); DTS package changes, upgrades, monitoring, scheduling and execution.
* Created the Technical Specification documents and conducted the walk through meetings with Systems Analysts.
* Identified common functionality between the processes and to have reusable code using shared containers and PL and SQL procedures.
* Derived the incremental extraction and load logic for each target table based on the source data.
* Facilitated requirements sessions with stakeholders, translating requirements into artifacts such as Use Cases, User Stories, UML models, etc.
* Coordinated with staff for system testing, validation, functionality and operational reliability of system platform as per software change requests and predefined business requirements.