**Akhil**

**Sr. ETL Talend Consultant**

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**PROFESSIONAL SUMMARY:**

* 7+ years of IT experience in Analysis, Design, Developing and Testing and Implementation of business application systems.
* Experiences on developing & leading the end to end implementation of Big Data projects by using Talend BIGDATA, comprehensive experience as a in Hadoop Ecosystem like **Map Reduce, Hadoop Distributed File System (HDFS), Hive.**
* Extensive experience in **ETL** methodology for performing **Data Profiling, Data Migration**, Extraction, Transformation and Loading using Talend and designed data conversions from wide variety of source systems including **Oracle, DB2, SQL server, Teradata, Hive, Hana**, and **flat files, XML** and **Mainframe files and Active MQ.**
* Good Experiences on relational database management systems, experience in integrating data from various data source like **Oracle, MSSQL Server ,MySQL** and **Flat files** too.
* Hands on experience on Hadoop technology stack (**HDFS, Map-Reduce, Hive, HBase, Pig**, **Sqoop, Oozie, Flume and Spark**).
* Experience with **NOSQL** databases like **HBASE** and **Cassandra**
* Excellent knowledge in deployment process from **DEV** to **QA, UAT** and **PROD** with both Deployment group and Import/Exports method.
* Excellent working experience in Waterfall, Agile methodologies.
* Familiar with design and implementation of the Data Warehouse life cycle and excellent knowledge on entity-relationship/multidimensional modeling (star schema, snowflake schema), Slowly Changing Dimensions (**SCD Type 1, Type 2, and Type 3**).
* Debugging ETL jobs errors, ETL Sanity and production Deployment in TAC-Talend **Administrator Console** using **SVN.**
* Experience in Trouble shooting and implementing Performance tuning at various levels such as **Source, Target, Mapping Session** and System in ETL Process.
* Experience in converting the **Store Procedures** logic into ETL requirements
* Good communication and interpersonal skills, ability to learn quickly, with good analytical reasoning and adaptive to new and challenging technological environment.
* Experience in Big Data technologies like **Hadoop/Map Reduce, Pig, HBASE, Hive, Sqoop, Hbase, Dynamodb, Elastic Search and Spark SQL**.
* Experienced in ETL methodology for performing **Data Migration, Data Profiling, Extraction, Transformation and Loading** using Talend and designed data conversions from large variety of source systems including Oracle […] **DB2, Netezza, SQL server, Teradata, Hive, Hana and non-relational sources like flat files, XML** and Mainframe files.
* Experiences on Designed **tables, indexes and constraints** using **TOAD** and loaded data into the database using SQL\*Loader.
* Involved in code migrations from Dev. to QA and production and providing operational instructions for deployments.
* Hands on Experiences on **Datastage** 8.7 ETL migration to Talend Studio ETL process.
* Strong Experiences on Data Warehousing ETL experience of using Informatica 9.x/8.x/7.x Power Center Client tools - Mapping Designer, Repository manager, Workflow Manager/Monitor and Server tools - Informatica Server, Repository Server manager.
* Experience in **SQL Plus** and **TOAD** as an interface to **databases, to analyze, view and alter data.**
* **Expertise in Data Warehouse/Data mart, ODS, OLTP and OLAP** implementations teamed with project scope, Analysis, requirements gathering, data modeling, Effort Estimation, ETL Design, development, System testing, Implementation and production support.
* Hands on experience in **Pentaho** Business Intelligence **ServerStudio**.
* Expertise in Using transformations like **Joiner, Expression, Connected and Unconnected lookups, Filter, Aggregator, Store Procedure, Rank, Update Strategy, Java Transformation, Router and Sequence generator**.
* Experienced on writing **Hive** queries to load the data into **HDFS**.
* Extensive experience on **Pentaho report designer, Pentaho kettle, Pentaho BI server, BIRT report** designer
* Experienced on designing **ETL** process using **Informatica** Tool to load from Sources to Targets through data Transformations.
* Hands on experience in developing and monitoring **SSIS/SSRS** Packages and outstanding knowledge of high availability **SQL Server solutions**, including replication.
* Hands on experience in Deployment of **DTS and SSIS** packages using ETL Tool.
* Excellent experience on designing and developing of multi-layer Web Based information systems using **Web Services i**ncluding **Java and JSP**.
* Strong experience in Dimensional Modeling using **Star and Snow Flake Schema, Identifying Facts and Dimensions, Physical and logical data modeling using ERwin and ER-Studio**.
* Extensive experience in developing **Stored Procedures, Functions, Views and Triggers, Complex SQL queries using SQL Server, TSQL and Oracle PL/SQL.**
* Experienced with Teradata utilities **FastLoad, MultiLoad, BTEQ scripting, FastExport, SQL Assitant.**
* Experienced in resolving on-going maintenance issues and bug fixes; monitoring Informatica sessions as well as performance tuning of mappings and sessions.
* Extensive experience in writing **UNIX shell scripts** and automation of the **ETL** processes using UNIX shell scripting, and also used **Netezza** Utilities to load and execute SQL scripts using Unix

**Technical Skills:**

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| **Development Tools** | Talend 6.2, Talend ESB 6.2, informatica, Eclipse, Putty, File Zilla, SQL Developer, Toad, Teradata SQL Assistant, Agnity Workbench for Netezza, Quality Center, Harvest, SQL Server Management Studio. |
| **Programming Languages** | Core Java, SQL, PL/SQL,C, C++ |
| **Operating Platforms** | MS Windows 2010/2000/XP/NT, Mac OS, Unix and Linux. |
| **Web Technologies** | HTML, XML, CSS, XSD, JavaScript and JSON. |

**Work Experience:**

**Client: Frontier Communications, Ashburn, Virginia**

**January 2016 – Till date**

**Role: Sr. ETL Talend Consultant**

**Responsibilities:**

* Created complex mappings in **Talend 6.2 using tMap, tJoin, tReplicate, tParallelize, tFixedFlowInput, tAggregateRow, tFilterRow, tIterateToFlow, tFlowToIterate, tDie, tWarn, tLogCatcher, tHiveIput, tHiveOutput etc.**
* Design and developed end-to-end ETL process from various source systems to Staging area, from staging to Data Marts.
* Designed ETL process using Talend Tool to load from Sources to Targets through data Transformations.
* Developed Talend jobs to populate the claims data to data warehouse **- star schema, snowflake schema, Hybrid Schema.**
* Integrated java code inside Talend studio by using components like tJavaRow, tJava, tJavaFlex and Routines.
* Developed complex ETL jobs from various sources such as SQL server, Postgres sql and other files and loaded into target databases using Talend OS ETL tool.
* Implemented File Transfer Protocol operations using Talend Studio to transfer files in between network folders.
* Worked on analyzing Hadoop cluster and different big data analytic tools including Pig HBase database and Sqoop.
* Performed transformations, cleaning and filtering on imported data using Hive, MapReduce, and loaded final data into HDFS.
* Handled importing of data from various data sources using Sqoop, performed transformations using Hive, MapReduce and loaded data into HDFS.
* Excellent knowledge of NOSQL on Mongo and Cassandra DB.
* Developed jobs in Talend Enterprise edition from stage to source, intermediate, conversion and target.
* Developing **UNIX** shell scripts for automating and enhancing streamlining existing manual procedures.
* Data migration from relational(Oracle.Teradata) databases or external data to HDFS using Sqoop and Flume & Spark.
* Developed Talend ETL jobs to push the data into Talend MDM and develop the jobs to extract the data from MDM.
* Developed Talend ESB services and deployed them on ESB servers on different instances.
* Developed data validation rule in the Talend MDM to confirm the golden record.
* Designed both Managed and External tables in Hive to optimize performance.
* Experienced in creating Generic schemas and creating Context Groups and Variables to run jobs against different environments like Dev, Test and Prod.
* Creating complex user provisioning for the company employees to run on daily basis.
* Experienced in working with Tac(Talend admintration Console).
* Developed error logging module to capture both system errors and logical errors that contains Email notification and moving files to error directories.
* Handled the Errors at Control and Data flow level in SSIS Packages.
* Maintained stored definitions, transformation rules and targets definitions using Informatica repository Manager.
* Used various transformations like Filter, Expression, Sequence Generator, Update Strategy, Joiner, Stored Procedure, and Union to develop robust mappings.
* Developed mapping parameters and variables to support SQL override.
* Developed Talend ESB services and deployed them on ESB servers on different instances.
* Created mapplets & reusable transformations to use them in different mappings.
* Developed mappings to load into staging tables and then to Dimensions and Facts.
* Developed the Talend jobs and make sure to load the data into HIVE tables & HDFS files and develop the Talend jobs to integrate with Teradata system from HIVE tables
* Worked on different tasks in Workflows like sessions, events raise, event wait, decision, e-mail, command, worklets, Assignment, Timer and scheduling of the workflow.
* Unit testing, code reviewing, moving in UAT and PROD.
* Designed the Talend ETL flow to load the data into hive tables and create the Talend jobs to load the data into Oracle and Hive tables.
* Migrated the code into QA (Testing) and supported QA team and UAT (User).
* Created detailed Unit Test Document with all possible Test cases/Scripts.
* Working with high volume of data and tracking the performance analysis on Talend job runs and session.
* Conducted code reviews developed by my team mates before moving the code into QA.
* Experience in Batch scripting on windows, Windows 32 bit commands, Quoting, Escaping.
* Used Talend reusable components like routines, context variable and globalMap variables.
* Provided support to develop the entire warehouse architecture and plan the ETL process.
* Knowledge on Teradata Utility scripts like FastLoad, MultiLoad to load data from various source systems to Teradata.
* Modified existing mappings for enhancements of new business requirements.
* Worked on Migration projects to migrate data from data warehouses on Oracle/DB2 and migrated those to Netezza.
* Prepared migration document to move the mappings from development to testing and then to production repositories.
* Configured the hive tables to load the profitability system in Talend ETL Repository and create the Hadoop connection for HDFS cluster in Talend ETL repository
* Works as a fully contributing team member, under broad guidance with independent planning & execution responsibilities.

**Skills Used:** Talend Big Data 6.2, Talend MDM, Hive, Oracle 11G, MapR, AWS, XML Files, Flat Files, HL7 Files, JASON, Talend Administrator Console, IMS, Agile Methodology.

**Client: Broadridge Financial Solutions, Inc., Jersycity,NJ**

**April 2014 - December 2015**

**Role: ETL Talend Developer**

**Responsibilities:**

* Design and Implemented ETL for data load from heterogeneous Sources to SQL Server and Oracle as target databases and for Fact and **Slowly Changing DimensionsSCD-Type1**and SCD**-Type2**.
* Utilized Big Data components like **tHDFSInput, tHDFSOutput, tHiveLoad, tHiveInput, tHbaseInput, tHbaseOutput, tSqoopImport and tSqoopExport.**
* Created Talend Jobs to retrieve data from Legacy sources and to retrieve user data from the Flat files on monthly and weekly basis.
* Written Hive Queries to fetch Data from HBase and transferred to **HDFS** through HIVE.
* Optimized the performance of the mappings by various tests on sources, targets and transformations
* Used debugger and breakpoints to view transformations output and debug mappings.
* Develop the ETL mappings for **XML, CSV, TXT** sources and loading the data from these sources into relational tables with Talend ETL Developed Joblets for reusability and to improve performance.
* Import the data from different sources like HDFS/HBase into Spark RDD.
* Involved in converting Hive/SQL queries into Spark transformations using Spark RDD, Scala and Python.
* Involved in unit testing and system testing and preparing **Unit Test Plan (UTP)** and System Test Plan (STP) documents.
* Migrated the code and release documents from **DEV to QA (UAT)** and to Production.
* Troubleshooting, debugging & altering Talend issues, while maintaining the health and performance of the ETL environment.
* Schedule the **Talend** jobs with **Talend Admin Console,** setting up best practices and migration strategy.
* Created Talend Mappings to populate the data into dimensions and fact tables.
* Broad design, development and testing experience with Talend Integration Suite and knowledge in Performance Tuning of mappings.
* Experienced in Talend Data Integration, Talend Platform Setup on Windows and UNIX systems.
* Created complex mappings in Talend 6.0.1/5.5 using tMap, tJoin, tReplicate, tParallelize, tJava, tjavarow, tJavaFlex, tAggregateRow, tDie, tWarn, tLogCatcher, etc.
* Created joblets in Talend for the processes which can be used in most of the jobs in a project like to Start job and Commit job.
* Experience in using Repository Manager for Migration of Source code from Lower to higher environments
* Developed jobs to move inbound files to vendor server location based on monthly, weekly and daily frequency.
* Implemented Change Data Capture technology in Talend in order to load deltas to a DataWarehouse.
* Created jobs to perform record count validation and schema validation.
* Created contexts to use the values throughout the process to pass from parent to child jobs and child to parent jobs.
* Developed joblets that are reused in different processes in the flow.
* Developed error logging module to capture both system errors and logical errors that contains Email notification and also moving files to error directories.
* Provided the Production Support by running the jobs and fixing the bugs.
* Experienced in using Talend database components, File components and processing components based up on requirements.
* Responsible for developing, support and maintenance for the ETL (Extract, Transform and Load) processes using Talend Integration Suite.
* Performed unit testing and also integration testing after the development and got the code reviewed.
* Responsible for code migrations from Dev. to QA and production and providing operational instructions for deployments.
* Broad design, development and testing experience with **Talend IntegrationSuite** and knowledge in Performance Tuning of mappings.

**Skills Used:** Talend 6.0.1, Oracle 11g, Hive, Sqoop,Teradata V 13.0, Fast load, Multi-load, Teradata SQL Assistant, MS SQL Server 2012/2008, PL/SQL, Agile Methodology, T-SQL, SSIS, TOAD, Erwin, AIX, Shell Scripts, Autosys.

**Client: JDA Software, Hyerabad, India**

**November 2012 - March 2014**

**Role: ETL Developer**

**Responsibilities:**

* Developed complex **ETL mappings** using **Informatica** to move data from our operational database to **DataWarehouse**.
* Developed complex mappings using Filter, Sorter, Aggregator, Look up, stored procedure, expression, Joiner, Router transformations for populating target table in efficient manner
* Used client tools Designer, Workflow Manager and **Workflow Monitor**
* Used **SQL** in a **DB2** environment to write queries to extract data
* Worked on Re-pricing of the Drug project to modify the current process of re-pricing and be more efficient in the way we handle different formats of files and how we analyze the file using Informatica.
* Used Informatica to transform, process, and load data in to **DataWarehouse**
* Loading data from **ODS** source into Staging tables and staging tables to delimited flat files
* Wrote SQL-Overrides and used filter conditions in source qualifier thereby improved the performance of the mapping using Informatica Designer
* Tuned ETL mappings by identifying performance bottlenecks and deploying established solutions
* Created ETL mappings and Workflow using Informatica to extract data from flat files (CSV, Text) and loads to warehouse
* Created staging tables to load the data in warehouse to perform ETL tasks using Informatica
* Worked with BA’s to finalize Data Model, functional and detailed technical requirements
* Created technical documentation describing ETL task implementation
* Established a process to develop and deploy code in a team
* Worked on a production support tickets to fix the issues

**Skills Used:** Informatica Power Center 9.1, Oracle 11g, SQL, PL/SQL, Oracle CRM on Demand, OBIEE, Toad, SQL Developer, FileZilla, Autosys, Citrix, UNIX and Windows.

**Client: Comake, India**

**April 2010 – April 2012**

**Role: SQL Developer**

**Responsibilities:**

* Created and managed schema objects such as Tables, Views, Indexes and referential integrity depending on user requirements.
* Actively involved in the complete software development life cycle for a design of database for new Financial Accounting System.
* Successfully implemented the physical design of the new designed database into **MSSQL** Server 2008/2005.
* Used **MS SQL Server 2008/2005** to design, implement and manage data warehouses OLAP cubes and reporting solutions to improve asset management, incident management, data center services, system events support and billing.
* Utilized T-SQL daily in creating customs view for data and business analysis.
* Utilized Dynamic T-SQL within functions, stored procedures, views, and tables.
* Used the **SQL Server Profiler** tool to monitor the performance of SQL Server particularly to analyze the performance of the stored procedures.
* Stored Procedures and Functions were optimized to handle major business crucial calculations.
* Implementation of data collection and transformation between different heterogeneous sources such as flat file, Excel and SQL Server 2008/2005 using **SSIS**.
* Migrated all DTS packages to **SQL Server Integration Services (SSIS**) and modified the package according to the advanced feature of SQL Server Integration Services.
* Defined Check constraints, rules, indexes and views based on the business requirements.
* Extensively used SQL Reporting Services and Report Builder Model to generate custom reports.
* Designed and deployed Reports with Drop Down menu option and Linked reports
* Developed drill down and drill through reports from multi-dimensional objects like star schema and snowflake schema using SSRS and performance point server.
* Created subscriptions to provide a daily basis reports and managed and troubleshoot report server related issues.

**Skills Used:** MS SQL Server 2005/2008, SSIS, SSRS, Microsoft.NET, MS Office Access2003, Excel, Erwin.