## Krishna Chandra Talasila

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## Professional Synopsis:

Over 9years of total experience in managing and administrating Informatica,Teradata, Greenplum and have been involved in Develop, Deploy and Troubleshoot Informatica and Teradata. Also been into Design, Development and Support of Business Intelligence sources Teradata, Greenplum postgresql as primary and SQL Server, Oracle as secondary skills.

* Expertise using different technologies including Informatica 9.1/8.x/7.1, SQL,Teradata and Greenplum database
* Design, development and coding with Teradata, experienced in writing complex queries, fast load and BTEQ scripts.
* Experience in executing the project in Agile methodology
* Experience in developing BTEQ scripts in loading the data from SQL Server to Teradata database
* Experience in Application Design, Data Extraction, Data Acquisition, Data Mining, Development, Implementations and Testing of Data Warehousing and Database Business Systems.
* Good knowledge in Data Modeling using data modeling tools, Star Schema/Snow Flake Schema, FACT and Dimensions tables, Physical and Logical data modeling.
* Experience in Integration of various data sources like Greenplum, Teradata, Oracle, SQL Server, and Fixed Width and Delimited Flat Files.
* Excellent understanding of Project Life Cycle and gathering requirements for ETL Development.
* Strong experience in Extraction, Transformation, Loading (ETL) data from various sources into Data Warehouses and Data Marts using Informatica Power Center (Repository Manager, Designer, Workflow Manager, Workflow Monitor), Power Exchange, Power Mart, Power Analyzer, and Power Connect.
* Strong Data Warehousing ETL experience using Informatica Power Center 9.1/8.6/8.1/7.1.1.
* Extensively worked on Informatica Designer Components - Source Analyzer, Warehousing Designer, Transformations Developer, Mapplet and Mapping Designer.
* Strong experience on Workflow Manager Tools - Task Developer, Workflow and Worklet Designer.
* Hands on experience with mappings from varied transformation logics including Unconnected and Connected, Lookups, Router, Aggregator, Joiner, Update Strategy, Java Transformations and Re-usable Transformations.
* Created ETL mappings using Informatica Power center to move data from multiple sources like Flat files and Oracle into a common target areas such as Data Marts and Data Warehouse.
* Extracted data from multiple operational sources of loading staging area, Data Warehouse and Data Marts using CDC/ SCD (Type2) loads.
* Good understanding of the concepts and handling Repository Manager, Designer and Informatica Server Manager.
* Involved in the data analysis for source and target systems and good understanding of Data Warehousing concepts, staging tables, Dimensions, Facts and Star Schema.
* Extensive knowledge in DataQuality in using of Informatica.
* Involved in Data Profiling using Data Explorer.
* Strong skills in writing BTEQ and Fast load scripts in Teradata
* Experience in PL/SQL Programming (Stored Procedures, Triggers, and Packages) using Oracle.
* Good knowledge in Transact-SQL (DDL, DML).
* Excellent analytical and logical programming skills with a good understanding at the conceptual level and possess excellent presentation, interpersonal skills with a strong desire to achieve specified goals.
* Have clear understanding of Business Intelligence and Data Warehousing Concepts with emphasis on ETL and SDLC, quality analysis, change management, compliance and disaster recovery.
* Strong experience on RDBMS concepts.
* Excellent understanding of the Teradata Architecture and Database Design.
* Collaborated in developing ETL jobs using Data Integrator.
* Extensively worked on PL/SQL Object Types, Autonomous Transaction and Table Partitioning.
* Excellent knowledge of system health reviews, capacity planning, disaster recovery planning, etc.
* Worked in up gradation of all GE Energy Applications from Informatica7.1 to 8.1 to 8.6.
* Highly experienced in preparing Project Estimates and Project Plans.
* Working Knowledge on UNIX, Windows and UNIXShell Scripting.
* Experience in interacting with Business Users in analyzing the Business Process requirements and transforming them into documenting, designing, and rolling out the deliverables.
* Excellent communication and social skills.
* Good troubleshooting and problem solving Skills.
* Good exposure to production environment and operational processes.

Roles & Responsibilities:

* Requirements gathering and analysis, preparing design documentation, design reviews, development, testing and deployment of application enhancements, and project planning.
* Develop, execute change enhancements based on requirements, resolve existing problems and improve the application stability
* Design, development and coding with Teradata utilities
* Experience in writing complex queries, fast load and BTEQ scripts.
* Experience in executing the project in Agile methodology
* Experience in developing BTEQ scripts in loading the data from SQL Server to Teradata database
* Working with different project team in explaining the project requirements and work with them in execution of the projects.
* Using FLoad and Mload scripts to load the data from GE WIND turbines to Teradata database.
* Fix all the issues and bugs that may come up during the phase of production. This may include helping the end user in understanding the application and setting up the system environment for them to make the application up and running.
* Deploying the application in the test environment and initiate the process of User Acceptance Testing (UAT). This includes fixing of data variances issues and fixing technical errors that may come up during this phase.
* Regular interaction with the GE Energy’s Finance Analysts, Unix Administrators, Database administrators, Network Administrators, Application Users – all belonging to different departments and divisions of GE Energy to ensure the smooth running of the applications.
* Prepare the cost estimates and get them approved by GE business for new on-boarding and enhancements.
* Parallel working on Support projects.
* Lead the team of 20 members of different locations which include the US, India, China and Malaysia.
* Actively participated in various Data Warehousing training programs and impart training to new joiners.
* Work closely with different business GE IM’s owners.
* Point of Contact to auditing team for GE Energy Services business.
* Work with HR team and get resources mapped to the business unit.
* Pull monthly ticket trends throughout technologies and review with business.

Technical Experience:

* Worked in up gradation of all GE Renewables business from Informatica 8.6 to 9.1
* Worked in upgrading of GE WIND Power and Water business from Oracle to Teradata database
* Worked in upgrading of GE WIND Power and Water business from Teradata v2r6 to Teradata 13 database
* Worked in upgrading of GE WIND Power and Water business from Teradata 13 to Greenplum postgresql database
* Tuning the queries and reduce long running session time.
* Extensively worked on Power Center Designer (Source Analyzer, Warehouse designer, Transformation Developer, Mapping Designer and Mapplet Designer)
* Worked in critical development project where used different transformations.
* Involved in all phases of the SDLC (Software Development Life Cycle) from analysis, design, development, testing, implementation and maintenance with timely delivery against aggressive deadlines.

Technical Skills:

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| ETL Tools | Informatica Power Center 9x/8.x/7.x/Power Connect |
| RDBMS | Oracle 11g/10g/9i, SQL DB ,Teradata, Greenplum (postgresql) |
| Operating System | HP UNIX,IBM AIX 4.3/4.2, Windows NT/2000/XP/7 |
| Job Scheduling Tools | Informatica Scheduler |
| Languages | SQL, PL/SQL, Unix Shell Scripting, Perl Scripting, Postgresql |
| Modeling Tools | Erwin 4.1 |
| Database Frontend Tools | Oracle SQL Developer, Quest Toad for Oracle, SQL Developer, Teradata SQL Assistant, pgAdmin III |

Recognitions and Awards:

* **Spotlight award** for completing the most critical GE Wind Power and Water Renewablesmigration project within the deadline to achieve cost savings of $1 M for the business customer
* gMonitor Application (developed and supported by our team which shows the status of complete wind turbines supported by GE in US and Canada)– **Presented by GE WIND CEO to US President Obama during his visit to GE Campus**
* **Bravo** awards for closing long pending application issues faced by GE WIND customer.
* **Pat on Back (POB)** award for successfully executing the projects by the GE WIND Power and Water management.
* Awarded **Associate of the Month**thrice by Tech Mahindra HR team
* Awarded as **STAR performer** consecutively for 5 years in Annual appraisal process by Tech Mahindra Management
* Received **ACE (Associate Consistently Excel)**by Tech Mahindra management for overall performance

**Certification:**

Oracle certified Associate

**Six Sigma Green Belt Certified**

Education Qualifications:

Bachelor of Technology from Anurag Engineering College (Affiliated to JNTU)

**Project summary:**

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| Project Name | GE Energy Server Operations Support | | |
| Client | GE Power & Water | | |
| Role | Project Lead | | |
| Duration | Mar 12-till date | | |
| Location | Atlanta - USA | |  |
| Team Size | 16 | | Modules : SCADA, GR |
| Environment  Windows Professional | Software  Informatica,  Teradata, SQL Server, Greenplum | Languages  Database : Teradata, Greenplum, SQL Server  Tools: Informatica 9.1 | |

Project Description:

GE supports several wind turbines all over USA, Europe and Asia. GE Wind Energy Server Operations Support is responsible for the entire data collection process from all the GE wind turbines to Global Repository database. It mainly contains two modules SCADA and Global Repository (GR). In SCADA environment the data is collected from Wind Mill turbines and then passed to MS-SQL server using different SSIS packages and data loading techniques.Global Repository (GR): GR is a Teradata database and all the data that is loaded to MS SQL Server in SCADA is loaded to GR Teradata database using Informatica workflows which runs on daily basis and continuously loads the data and makes it available for the business. All the data loaded to GR Teradata database is used globally for analysis by GE users\analysts and customers.

##### Contribution:

* Managing the team on daily support activities and coordinating on different production issues
* Involved in gathering requirements and created design documents and mapping documents.
* Develop BTEQ scripts to load the data coming from SQL Server to GR Teradata Database
* Using Fload and Mload scripts to load the data from GE Wind turbines through Informatica into GR Teradata database
* Working with GE customers and application owners in gathering the requirements and execute the project in agile methodology
* Did error handling and performance tuning in Teradata queries and utilities.
* Working with Teradata utilities like BTEQ, Fast Load, MultiLoad, Tpump, Fast Expert and Queryman.
* Worked with ET, UV, and WT Tables.
* Responsible for database performance and tuning
* Responsible for resource allocation, managing resources (offshore), prepare ETL Design (source to target mapping documents), helping developers in developing efficient code, ensure coding standards are followed, perform code reviews, delivery of quality code, meeting the timelines for development, perform end-to-end testing and provide weekly status on projects to clients
* Implemented the common staging area per source system.
* Designed the Incremental Load strategy for daily loads.
* Tuned the mappings and reduced the ETL load time window
* Designed ETL Logic for mappings.
* Implemented Parallel loading mechanism
* Implemented single workflow for both daily and weekly loads.
* Optimized the Dimension structure and created the confirmed dimensions.
* Extensively worked on Power Center Designer (Source Analyzer, Warehouse designer, Transformation Developer, Mapping Designer and Mapplet Designer).
* Mappings and better maintenance. Creating/ Building and scheduling Batches and Sessions using the Server manager
* Developed Reusable Transformations, Aggregations and created Target mappings that contain business rules.
* Optimizing/Tuning mappings for better load performance and efficiency.

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| Project Name | Teradata to Greenplum DB Migration | |
| Client | GE Power & Water | |
| Role | Project Lead | |
| Duration | 6 months – this project is part of my current project | |
| Location | Atlanta - USA | |
| Team Size | 08 | |
| Environment  Windows Professional | Software  Informatica,  Teradata, Greenplum | Languages  Database : Teradata, Greenplum  Tools:Informatica9.1 |

Project Description:

GE supports several wind turbines all over USA, Europe and Asia. GE Wind Energy Server Operations Support is responsible for the entire data collection process from all the GE wind turbines to Global Repository database. As the number of turbines and the amount of data getting increased year by year, GE decided to move to Greenplum DB from Teradata. This project is responsible for migrating Teradata database to Greenplum. All the data loaded to GR Greenplum database is used globally for analysis by GE users\analysts and customers.

##### Contribution:

* Identify the sources connecting to Teradata database and convert them to Greenplum
* Convert BTEQ Scripts from Teradata to Greenplum UDF
* Create new connections for Greenplum DB
* External tables are created and replaced the FLoad scripts of Teradata
* Managing the team on daily migration activities
* Involved in gathering requirements and created design documents and mapping documents.
* Tuned the mappings and reduced the ETL load time window
* Designed ETL Logic for mappings.
* Optimizing/Tuning mappings for better load performance and efficiency.
* Handling daily and weekly calls with customers to provide update on migration

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| Project Name | GE WIND Core Apps Enhancements | | |
| Client | GE Power and Water | | |
| Role | Project Lead | | |
| Duration | Feb -11 To Feb-12 | | |
| Location | Atlanta - USA | |  |
| Team Size | 04 | | Modules : PMT, WIMC, NEWS, WFRS |
| Environment  Windows Professional | Java, Spring Frame Work, Teradata, Informatica, Oracle | Languages: Teradata, Oracle | |

Project Description:

GE Wind Core Apps Enhancements team has been formed to take up any kind of Enhancements projects proposed by GE Renewables Application Owners. PMT, WIMC, NEWS, and WFRS are the four major renewables applications that are part of this scope. Enhancements include bug fix, code changes, performance tuning, new interface, and any kind of new web pages\new functionalities.

Contribution:

* Managing the team in India and China on daily activities and coordinating on all the enhancement projects
* Involved in gathering requirements and created design documents and mapping documents.
* Responsible for resource allocation, managing resources (offshore), prepare ETL Design (source to target mapping documents), helping developers in developing efficient code, ensure coding standards are followed, perform code reviews, delivery of quality code, meeting the timelines for development, perform end-to-end testing and provide weekly status on projects to clients
* Designed ETL Logic for mappings.
* Optimizing/Tuning mappings for better load performance and efficiency.
* Working with Application owners in gathering the requirements and updating the progress on daily basis.
* Handling calls with customers on project updates.
* Performing testing of the application to check if the requirements are met by using the test scripts\test cases prepared.

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| Project Name | GE Global Repository Support | | |
| Client | GE Energy | | |
| Role | Project Lead | | |
| Duration | Oct -09 To Jan -11 | | |
| Location | Atlanta - USA | |  |
| Team Size | 09 | | Modules : GR |
| Environment  Windows Professional | Windows Server 2003,  Teradata v2r6, Oracle 10G, SQL Server | Languages: Teradata, SQL Server | |

Project Description:

All GE Wind Energy data will be stored to an Oracle database later migrated to Teradata Database. All the GE users and customers access this database to analyze the data of their respective sites\turbines and prepare reporting based on the data.

Contribution:

* Extensively worked in data Extraction, Transformation and loading from source to target system using Bteq, Fast Load, and MultiLoad.
* Involved in writing scripts for loading data to target data Warehouse for BTEQ, Fast Load, and MultiLoad.
* Did error handling and performance tuning in Teradata queries and utilities.
* Working with Teradata utilities like BTEQ, Fast Load, MultiLoad, Tpump, Fast Expert and Queryman.
* Worked with ET, UV, and WT Tables.
* Responsible for database performance and tuning
* Supporting production Informatica loads
* Working directly with customers and different users all over the world on different project issues
* Handling calls with clients all over USA & Europe
* Worked on different development and improvement projects
* Troubleshooting and fixing different production support issues.
* Worked on several Lean initiatives in the project
* Worked on project invoicing activities
* Worked on several automations in the project which made the client very delightful.
* Got Lean Certified for Automating the Time Interval data upload to production by reducing the time taken for the job and also eliminated the manual intervention.
* Working on Root Cause Analysis of the production issues and submitting detailed analysis to the clients and helping team in resolving the issues.

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| Project Name | NWPS | | |
| Client | GE Energy | | |
| Role | Team Lead | | |
| Duration | Apr -09 to October -09 | | |
| Location | Hyderabad - India | |  |
| Team Size | 3 | | Modules : NWPS |
| Environment  Windows Professional | Software  Informatica,  Oracle 10G | Languages  Database : Oracle 10G  Tools: Informatica 8 | |

Project Synopsis

NWPS Application holds the data of all GE Wind turbines that are faulted in the last 24 hours and will provide the alerts of all turbines that are not working as expected to the front end which will be used by ROC team to analyze the problem based on the alert and the fault data and perform proper troubleshooting and bring back the turbine back online. Our team will fetch the data from turbine computers and load them using informtica into Oracle database and application will pick up the data from the back end oracle database and show it on the front end.

The Interface program is Design and Build to

1. Extract all Errdev\Faulted values from GE Wind turbines

2. Load extracted data initially into staging tables and then into custom tables in Oracle Instance.

3. Notifications in case of errors in transmission of data.

Contribution:

As a Team Lead was responsible for

* Analysis of the BRD’s provided by my IM.
* Creation of Mappings as per the Business Logic.
* Documentation.
* Regularly monitor the data load to ensure smooth data flow into the Oracle database.
* Validate that the number of records are same in the Oracle tables and Staging
* In case of Loading Error, then the program should rollback and report Exception.

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| Project Name | Six Sigma Green Belt Project  (Automation of data load process for Global Repository at GE Energy) | | |
| Client | GE Energy | | |
| Role | Project Lead\Green Belt | | |
| Duration | Jan -09 To Mar -09 | | |
| Location | Hyderabad –India, Atlanta, USA | |  |
| Team Size | 3 | | Modules : GE WIND |
| Environment  Windows Professional | Software  Informatica,  Oracle 10g, Shell Scripting, Dos Batch Files, DTS Packages | Languages  Database : Oracle 10g  Tools: Informatica , DTS Packages | |

Project Description:

Six Sigma is a powerful management tool for breakthrough improvements in processes and services leading to higher monetary benefits and stakeholder delight. Six Sigma is about getting at the root causes of our defects and eliminating them through process improvement. Automation of data load process for Global Repository at GE Energy is a process improvement initiative; it aims at improving the data load process to GE Wind Energy Global Repository database by using ISTRIVE methodology. GE supports thousands of wind turbines that are located all over the globe and the data coming from the turbines are finally loaded to GE Wind Energy Global Repository database. The data load process is taking very long time due to which business is unable to access latest data from the Global Repository database and this process improved the overall data loading process.

Advantages**:** Improve data load process and data quality and this process reduced average of 6 human hours in a day and a saving of 76650$ per annum has been recorded.

Contribution:

* Working on ISTRIVE methodology with different tools and techniques in arriving at the sigma level.
* Collecting the sample data and analyze the data collected using different tools.
* Arrive at the solution and implement it successfully.
* Giving Presentation to the clients on weekly basis on the progress of the project and taking the approvals for the same.
* Test the application and make sure the project is delivered with zero defect
* Presently Mentoring Satyam Onsite associates at Atlanta in Six Sigma and Lean Initiatives.

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| Project Name | gMonitorX | | |
| Client | GE Energy | | |
| Role | Project Lead | | |
| Duration | Jun -08 To Dec -08 | | |
| Location | Hyderabad – India | |  |
| Team Size | 3 | | Modules : Renewables |
| Environment  Windows Professional | Software  Java, SQL, PL\SQL, Oracle 10g | Languages  Database : Oracle | |

Project Description:

GE supports more than 29000 wind turbines all over US, Europe & Asia. All the statistical data related to the wind turbines is calculated at the back end using Oracle procedures (now migrated to Teradata) and displayed in the front end. The application also provides a drill down to all the sites, when on a single click we can check the status of each site turbine wise. This application is displayed in the GE Internal portal

Contribution:

* Coordinating with the client and the team in making sure the requirements are met
* Conducting meetings with the clients all over USA and updating the status of the project.
* Working on back end coding
* Making sure the requirements are met and the project is delivered in time to business
* Test the application and make sure the project is delivered with zero defect

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| Project Name | ESGAP | | |
| Client | GE Energy | | |
| Role | Team Member | | |
| Duration | Oct-07 to Jun -08 | | |
| Location | Hyderabad - India | |  |
| Team Size | 2 | | Modules : ESGAP |
| Environment  Windows Professional | Software  Informatica,  Oracle | Languages  Database : Oracle  Tools: Informatica | |

Project Description

The Chart of Accounts Key Accounting Flex field Segment Hierarchies created in Energy General Ledger (GL) will be used for creating financial reports in the Data Warehouse systems for Energy Services P&Ls Instance (Charlie, Galaxy, etc.) In order to achieve this, the GL Hierarchies will be transferred from Energy GL to P&Ls Instances and thereafter Jaros will pull the GL Hierarchies details from P&Ls Instances. I cover the functional design for extracting GL Hierarchies from Energy GL and loading into custom tables in P&Ls Instances.

The Interface program is Design and Build to

1. Extract all GL AFF segment values and hierarchies from Energy GL

2. Load extracted data initially into staging tables and then into custom tables in P&L Instance.

3. Notifications in case of errors in transmission from Energy GL to P&L Instance.

Contribution:

As a Team Member was responsible for

* Analysis of the BRD’s provided by my IM.
* Creation of Mappings as per the Business Logic.
* Documentation.
* Regularly (30 minutes interval) Monitor the Trigger Table in Energy GL instance and checkfor any new record insertion in the table columns to signal that Hierarchy Maintenance work is completed.
* If Trigger table is updated with new record, then extract all records from Energy GL Basetables as listed above and detailed in the Sections Business Rules and P&L Table Design and Mapping.
* Validate that the number of records are same in the Energy GL tables and Staging Tables of

P&L instance.

* In case of Loading Error, then the program should rollback and report Exception.
* In the case of loading error in P&L GL the next process of Loading to Jaros should not

Happen.

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| Project Name | PARTS DWH | | |
| Client | GE Energy | | |
| Role | Team Member | | |
| Duration | Sep 05 To October -07 | | |
| Location | Hyderabad - India | |  |
| Team Size | 4 | | Modules : PARTS |
| Environment  Windows Professional | Software  Informatica,  Business Objects.  Oracle | Languages  Database : Oracle  Tools: Informatica | |

Project Description:

The GE PARTS data warehouse accesses data from various sources including the Parts ERP Database, COSDOM, and trade sphere to provide a single view of key Parts business information and metrics. The current phase of the project is to maintain a near real time data warehouse. The Parts Interim Data Warehouse (IDW) is populated once a day with data from the Parts ERP System and then updated every two hours. The data from Parts IDW is used in BO Reports, MS Access Reports and other downstream applications. Informatica mappings and Business Objects Reports are created and maintained to provide a complete and accurate single-source, near real time data for the critical fields of Quotes, Orders and Shipping to the ERP Parts business users.

Contribution:

As a team member was responsible for

* Analysis of the specifications provided by the clients.
* Designing, developing Informatica mappings and Business Objects Reports.
* Preparation of Documentation for Informatica mappings and Business Objects Reports and execute the transition for the post production support for all the projects.