**Srujan Kumar Gaddam**

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**SUMMARY**

* Over 10+ years of professional IT experience and 8+ years in **data modeling** and **Data Analyst** as a Proficient in gathering business requirements and handling requirements management.
* 3 years of hands-on experience in Python for Data Analysis and Visualization.
* 2+ Hands-on experience with the overall Hadoop eco-system (Hive, HDFS, Map Reduce, Pig, HBase, Spark & Zookeeper etc.)
* Experienced in designing the **Conceptual**, **Logical** and **Physical** data modeling using **Erwin, Power Designer** and **ER Studio** etc. Data modeling tools.
* Experience in data analysis, creating pipeline, API’s, and REST full Services creation by using **Python.**
* Good in the system analysis, **ER Dimensional Modeling**, **Database design** and implementing RDBMS specific features.
* Over 7 years' experience in modeling with both **OLTP**/**OLAP** systems and **Kimball** and **Inmon Data Warehousing** environments.
* Good in Data Strategy, **Normalization / Demoralization** techniques for effective and optimum performance in OLTP and OLAP environments.
* Having good experience with **Normalization** (1NF, 2NF and 3NF) and **Denormalization techniques** for improved database performance in OLTP, OLAP, Data Warehouse and Data Mart environments.
* Having experience and created high level interacted models and developed with **Data Virtualization** Tools as per the requirement.
* Well-versed in designing **Star** and **Snowflake Database schemas** pertaining to relational and dimensional data modeling.
* A good expertise in Extract Transform and Load (**ETL**) data from spreadsheets, database tables and other sources using Microsoft Data Transformation Service (**DTS**) and **Informatica.**
* Working with large data volumes, including processing, transforming, and transporting large-scale data using big data stack: M/R, Hive SQL, and Spark.
* Expertise in migrating legacy data from **Cobol, Informix, DB2, IBM mainframe** to On-premises applications **SQL Server, Oracle** and different **cloud applications**
* Good working knowledge of **Meta-data** management in consolidating metadata from disparate tools and sources including Data warehouse, ETL, Relational Databases and third-party metadata into a single repository to get information on data usage and end-to-end change impact analysis.
* Having experience in writing complex **SQL** queries to perform end-to-end ETL validations and support Ad-hoc business requests. Also good in developed **Stored Procedures**, **Triggers, Functions, Packages** using **SQL/PLSQL.**
* Efficient in analyzing and documenting business and functional requirements along with **Use Case Modeling** and **UML.**
* Experience in **data transformation**, **data mapping** from source to target database schemas, **data cleansing** procedures.
* Well versed in conducting **Gap** analysis, Joint Application Design (**JAD**) session, User Acceptance Testing (**UAT**), Cost benefit analysis and ROI analysis.
* Experience by using finance model and **Bloomberg application** to capture selling or divesting assets in the banking domain.
* A good familiarity and experience in the work environment consisting of Business analysts, Production/Support teams, Subject Matter Experts, Database Administrators and Database developers.
* Excellent problem solving and analytical skills with exceptional ability to learn and master new technologies efficiently

**TECHNICAL SKILLS**

Modeling Tools: ER studio, Erwin, Power Designer, MS Visio, IBM InfoSphere Data Architect IDA and Hackolade.

Reporting Tools: Power BI, Cognos's 8 / 10, OBIEE, Tableau, Business Objects, Denedo, SSRS

Databases: Oracle7/8i/9i/10g/11g, MS SQL Server2000/2005/2008/2012, MS Access, Teradata, Mogo DB, Netezza, PostgreSQL, DB2.

Cloud: AWS, Azure, Snowflake, Redshift, Vertica

Operating Systems/Platforms: Windows NT, 2000 & XP, Vista, AIX, UNIX, Linux and Sun Solaris.

**Other Tools:** SQL Navigator, TOAD, PVCS, JIRA, Aqua Data Studio and Informatica Power Center, SAP BI/BW.

Languages: C, C++, Python, Pig, Spark, Scala, Java, .NET, PL/SQL and SQL.

**PROFESSIONAL EXPERIENCE:**

**Role: Data Modeler / Data Engineer**

**ElevanceHealth, Atlanta 07/2022 - current**

**Responsibilities**:

* Designed data model for **Contact Center** as per **Genesys API’s** data, where we built tables like **Conversation, Participant, Session, Segment, Metrics, Users and Groups** etc
* Prepared **source to target mapping** document for all the elements in the API, where in the target columns are standardized and abbreviated as per company standards.
* Prepared **Snowflake SQL flatten** scripts for JSON data for few the API’s
* Developed **Complex aggregate SQL** for AGENT, QUEUES, USER Session etc for reporting needs.
* Developed Aggregate views in different level of grains like Subhr, Day, hour, Week and Month.
* Involved in preparing pipelines between **AWS to Snowflake** and **GCP to Snowflake**
* Involved in monitoring the jobs, trouble shooting issues y checking the logs and uploading the CSV files in S3 buckets to run security views in **AWS** and **GCP**.
* Maintained scripts in bit bucket repository
* While the deployment working with the DBA’s, monitoring the deployments closely.

**Environment:** Snowflake, AWS, GCP, BitBucket, ORACLE, Python, Power Designer, Json, Jira, Service Now etc.

**Role: Data Modeler / Data Warehouse Developer**

**MunichRe, NJ 08/2021 - 07-2022**

**Responsibilities**:

* Involved in creating and enhancing the Data Models for Azure SQL & Oracle databases
* Designed policy & claims Data Vault models using satellites, hubs and links for Azure environment.
* Designed PHV’s and deployed in Vertica database and maintained models in Model Mart
* Involved in mapping documents for the data models for the development of Azure database.
* Preparing mapping documents for views to the business that arranged working sessions with business to understand the grain.
* Prepared logical views validated source and target data.

**Environment:** Erwin Data Modeling tool, Azure SQL, Vertica database, Oracle, Snowflake, AWS, XML Spy, Teradata, Jira, Service Now etc.

**Role: Data Modeler / Data Developer 02/2021 - 08/2021**

**Albertsons, Pleasanton, CA**

* Developing data models using XML Spy, Received XML & JSON files from business to develop the models for Azure environment in the snowflake cloud database.
* Prepared flatten scripts for few API data and uploads those in blob.
* Worked Data Models on Promotion, offers etc and Developed SQL for facts and Dimension model for reporting needs.
* Prepared logical and physical data models using Erwin data modeling tool
* Worked with Architects and leads to integrated the the data models in the mart
* Walk through the Models and developed Source to Target mapping to the team.

**Environment:** Erwin Data Modeling tool, Snowflake, Oracle, Azure, Kafka, XML Spy, Teradata, Jira, Service Now etc.

**Role: Data Modeler 06/2020 – 02/2021**

**The Hartford, Connecticut, Hartford**

The Hartford Financial Services Group, Inc., usually known as The Hartford, is a United States-based investment and [insurance](https://en.wikipedia.org/wiki/Insurance) company. The Hartford is a [Fortune 500](https://en.wikipedia.org/wiki/Fortune_500) company headquartered in its namesake city of Hartford, Connecticut.[[2]](https://en.wikipedia.org/wiki/The_Hartford%252525252523cite_note-auto-2) It was ranked 160th in [Fortune 500](https://en.wikipedia.org/wiki/Fortune_500) in the year 2020.[[3]](https://en.wikipedia.org/wiki/The_Hartford%252525252523cite_note-3) The company's earnings are divided between [property](https://en.wikipedia.org/wiki/Property_insurance)-and-[casualty](https://en.wikipedia.org/wiki/Casualty_insurance) operations, [group benefits](https://en.wikipedia.org/wiki/Group_insurance) and [mutual funds](https://en.wikipedia.org/wiki/Mutual_funds). The Hartford is the 13th-largest property and casualty insurance company in the United States.[[4]](https://en.wikipedia.org/wiki/The_Hartford%252525252523cite_note-4) It sells products primarily through a network of agents and brokers, and has also been the auto and home insurance writer for [AARP](https://en.wikipedia.org/wiki/AARP) members for more than 25 years.

**Responsibilities:**

* Involved in creating and enhancing the Data Models for Azure SQL & Oracle databases
* Designed policy & claims Data Vault models for Azure environment.
* Designed PHV’s and deployed in Vertica database and maintained models in Model Mart
* Involved in mapping documents for the data models for the development of Azure database.
* Preparing mapping documents for views to the business that arranged working sessions with business to understand the grain.
* Prepared logical views validated source and target data.

**Environment:** Erwin Data Modeling tool, Azure SQL, Vertica database, Oracle, Snowflake, AWS, XML Spy, Teradata, Jira, Service Now etc.

**Werner Enterprises, Omaha, NE 10/2019 – 06/2020**

**Role: Data Modeler / Data Developer**

Werner Enterprises, Inc. is an American freight carrier and transportation and logistics company headquartered in Omaha, Nebraska. It was founded in 1956 by Executive Chairmen Clarence L. (C.L.) Werner. He started his business with one truck at the age of 19. The company has two divisions - Truckload Transportation Services and Werner Logistics. At the end of 2017, Truckload division has 7,435 trucks and Werner Logistics has 45 drayage trucks.

**Responsibilities:**

* Created training, test data models, applied predicting algorithms using python packages, and calculated statistics and accuracy on the Carrier data.
* Crated **API’s using python** and loaded into database to show on UI.
* Used to connect different databases using python for did the **data analysis, data cleansing** by merging, concatenate and grouping.
* Creating the **OLTP/OLAP Data Models** and the enhancements to the Data Science team, Application team.
* Worked with Data Science and ETL team to migrate the data from **Informix, DB2** to **SQL Server and Cloud environment**.
* Created graphs, data sets using **python** and worked closely with Data Science team.
* Involved and supported development team and developed application by using Django framework.
* Involved, Implemented in **Azure** and worked closely with Development team & created with **Spark** Realtime Application by using Big Data framework.
* Involved in POC integrated and migrated data into **Snowflake** cloud database.
* Forward and Reverse engineer the data models by using **Sparx Enterprise Architecture, IBM Info Sphere** Data Architect IDA tool from the different Data bases for the enhancements.
* Working with BA’s to understand the requirement and explain the requirements to Development teams.
* Creating **DDL’s** and preparing scripts for DBA’s to deploy all the environments accordingly.
* Creating Data Models and enhancing Data Models using the Enterprise Sparx Architecture tool.
* Working with the Governance team to capture the definitions for each attribute in the model.

**Environment:** Sparx Enterprise Architecture, Neo4j, Azure, Cosmos DB, Snowflake, Big Data, Spark, Kafka, HDFS, HBase, DB2, Informix, Teradata, Netezza, IBM Info Sphere Data Architect IDA, Data Stage, SSIS, SSRS, Power BI, Tableau, Java, Python, Django, Sql Server, Angular JS.

**Cisco, San Jose, CA**

**Role: Data Modeler / Data Analyst 01/2019 - 10/2019**

Cisco develops, manufactures, and sells networking hardware, telecommunications equipment and other high – technology services and products. Captured supply chain and product life cycle data from different source systems to mongo DB and developing UI for different tracks like T&V, DFX, H/W, S / W … etc.

**Responsibilities:**

* Created for **Supply chain** and product life cycle OLTP Data models for all the tracks individually and preparing consolidate Data Model for the PLM project
* Interaction with all the business leads, Data Analyst’ s to understand the requirement and walkthrough the data model to all business users.
* Worked on Digital Catalog where Captured product life cycle management attribute definitions throughout Cisco.
* Created data models by connecting NoSQL database to the respected tracks through ER Studiodatamodeling tool.
* Working on Python API’s to bring the data from the source system to **mongo DB**.
* Working on mongo DB collections and do the necessary changes if required.

**Environment:** ER / Studio Data Architect 17.0, Hackolade, Oracle, Mongo DB, Python, Django, Java, Angular JS 6.0, HTML, CSS, Java Script, Power BI.

**Bank of the West, San Ramon, CA** 11/2016 – 11/2018

**Role: Data Modeler / Data Analyst**

**Project Summary:** Bank of the west is a financial service company, and it is a subsidiary of BNP Paribas and provides consumer and commercial banking, Anti Money Laundering (AML), wealth management, Risk Management, mortgage, KYC, insurance products and services. The goal of this project was to build a central repository of historic data warehouse that could support the banks various reporting and information needs. Data was spread out in multiple and diverse sources in databases located in different regions. The requirement demanded an integrated, unified data pool that was truly subject-oriented, time-variant, and nonvolatile. Dimensional modeling using the star schema architecture was implemented to achieve the task.

**Responsibilities:**

* Interacting with Business Analysts to gather the user requirements and participate in data modeling sessions.
* Working with the DevOps team, writing user stories in Jira and updating the status of changes like modeling issues and enhancements has been done as part of the requirements.
* Performed data analysis and profiling of source data to better understand the sources.
* Created **3 NF** business area data modeling with de-normalized physical implementation; data and information requirements analysis.
* Working on Data Lake POC, preparing DDL maintained in S3 and SVN and working closely with Hadoop developers.
* Experience on analyzing transformation logic Pig, Spark and understanding the logic in Map reducer.
* Working on POC to build a warehouse & transaction system in AWS Redshift, RDS, Glue environment.
* Plans and coordinates with **DBAs** for the table level enhancements, deployments, and estimate space to the new schema and performance issues on ETL code.
* Redefined many attributes and relationships in the **reverse engineered** model and **cleansed** unwanted tables and columns as part of Data Analysis responsibilities.
* Developed the data warehouse model **(Kimball**’**s)** with multiple data marts with conformed dimensions for the proposed central model of the Project.
* Implemented **Star Schema** methodologies in modeling and designing the logical data model into Dimensional Models.
* Conducted design sessions with Business Analysts and ETL developers to come up with a design that satisfies the organization’s requirements.
* Working with Database Administrators (DBAs) to finalize the physical properties of the tables such as the Partition **key, based on volumetric**.
* Analyzed the data from the sources, designed the data models and then generated **scripts** to create necessary tables and corresponding records for DBAs using **Informatica.**
* Developed several Data correction scripts using PL/SQL to handle any manual adjustments/corrections in the System.
* Worked with DBA’s by using **Oracle Golden Gate** to filter, transform and transfer the data into on premise database to Oracle cloud 12c cloud database.
* Interact with subject matter experts for IT personnel **on Data Virtualization software (Denedo)**, including performance tuning, troubleshooting, gathering and decisions about configuration. Designs and develops high quality integration solutions consistent with given requirements, involved in creating Base views, interface views and derived views.
* Collaborates with other application development teams to design, develop, and deploy solutions leveraging the data virtualization tool. Supports the definition and adherence to**, Data Virtualization** standards, conventions, principles.

**Environment**: AWS, Redshift, S3, Glue, Oracle 12C, Teradata 12.0, Teradata Sql Assistant, Informatica 9.6.1, Sql Server, Teradata, Denedo Platform 6.0, Toad for Oracle 11.5 Expert, Erwin Data Modeler 9.5, SSIS, SSRS, Hadoop, ODI, MS Visio, OBIEE, Python, PostgreSQL, Hive, Pig, Copybooks, Jira, Java.

**T-Mobile, Bellevue, WA** 08/ 2015 – 11/2016

**Role: Sr. Data Modeler / Data Analyst**

**Project Summary:** T-Mobile US, Inc. is a major wireless network operator in the United States. The German telecommunication company Deutsche Telekom (DT) is its majority shareholder, through DT's holding company T-Mobile International AG. Its headquarters are in Bellevue, Washington, in the Seattle metropolitan area. T-Mobile is the 3rd largest wireless carrier in the United States with 65.5 million customers as of Q1 2016.

**Responsibilities:**

* Worked as a Data Architect as part of the IDW (Integrated Data Warehouse) project under Agile DevOps methodology
* Implemented and involved Teradata CLDM data model applied rules against source systems and captured as per standards in the target.
* Worked with SME, Data stewards to understand the requirement
* Working on different subject areas like Party, Account, Line of Service, Finance and Product
* Working with Business Analyst to gather business attributes as part of the report and creating LDM based on the business attributes using Power Designer 16.
* Review LDM with Lead Data Architects and then review with the entire team.
* Creating PDM and Source to Target Mapping documents and review with Lead Data Architects
* Generating DDLs using Power Designer and executing them on Teradata and Hadoop
* Data Profiling of source using Oracle and Hue (Hadoop/Hive UI) and supporting developers by testing the target on Teradata and Hadoop.
* Validating scripts transformations and joins in PIG.
* Actively participate in a backlog grooming session with scrum master, product owner and solution owner
* Created a standard document for the client to list out steps on “How to create DDL for Teradata and Hadoop using Power Designer”
* Using Agile Central (Rally) to enter tasks and associated hours for each task
* Using GitHub and Accurev to actively manage and promote DDLs
* Working with different source systems like RPX, Samson, Chub, Ericsson, SAP ECC etc.
* Designs and develops high quality integration solutions consistent with given requirements using Denedo.

Environment: Power Designer 16, Hadoop, HIVE, HDFS, Oracle SQL Developer, Microsoft SQL Server 2008, Teradata SQL Assistant 14.0, AccuRev, CTRL M, SAP BW, SAP ECC, Denedo, Business Objects.

**Apollo Education Group, Phoenix, AZ.** 02/2015 – 08/2015

Role: Data Modeler / Report Developer

Project Summary: The project involves building a dynamic reporting for business intelligence/analytics. The objective is to have the near real time visibility to human recourse department, inquiry volume, and service and performance metrics and provide the actionable information to decision makers.

Responsibilities:

* Conducted one-on-one sessions with business users to gather data warehouse requirements
* Analyzed database requirements in detail with the project stakeholders by conducting Joint Requirements Development sessions
* Created Logical and Physical models by using **Erwin** based on requirements analysis.
* Developed normalized **Logical** and **Physical** database models De Normalize design for HR applications
* Used forward engineering to create a Physical Data Model with **DDL** that best suits the requirements from the Logical Data Model
* Worked with Database Administrators, Business Analysts and Content Developers to conduct design reviews and validate the developed models.
* Identified, formulated, and documented detailed business rules and Use Cases based on requirements analysis.
* Facilitated development, testing and maintenance of quality guidelines and procedures along with necessary documentation.
* Responsible for defining the naming standards for data warehouse.
* Generated ad-hoc **SQL** queries using joins, database connections and transformation rules to fetch data from legacy Oracle and **SQL Server** database systems
* Translated business concepts into **XML** vocabularies by designing XML Schemas with **UML**
* Exhaustively collected business and technical metadata and maintained naming standards
* Used **IDA** for reverse engineering to connect to existing database and ODS to create graphical representation in the form of Entity Relationships and elicit more information
* Worked with **ETL** teams and used Informatica Designer, Workflow Manager and Repository Manager to create source and target definition, design mappings, create repositories and establish users, groups and their privileges.
* Participated in data anomaly resolution, data cleansing and development of cleansing rules for ongoing data synchronization.
* Used **Rational Team Concert (RTC) 3.0.1** for effective model management of sharing, dividing and reusing model information and design for productivity improvement
* Conducted impact analysis for changing business requirements as per user needs
* Studied in-house requirements for the Data warehouse to be developed.
* Participated in performance management and tuning for stored procedures, tables, and database servers.
* Facilitated in developing testing procedures, test cases and User Acceptance Testing (UAT)
* Developed database design in HADOOP and Hands on experience in writing queries in HIVE, validating transformation logics in PIG.
* Integrated the work tasks with relevant teams for smooth transition from testing to implementation phase.
* Developed necessary support documentation for end users, operations and testing teams.

**Environment:** Erwin Data Modeler 9.x, Informatica Power Center 9.1/8.6.1, Windows XP/NT/2000, SQL Server 2008/2012, SQL, Oracle, Hadoop, Cogno’s 10, Framework Manager, Report Studio, Query Studio, Tableau, UltiPro, MS Excel, MS Visio, Rational Rose, Requisite Pro, SSIS, ODI, SSRS

 **Allstate, Livermore, CA** 07/2011 –09/2014

 Role: Data Modeler / Data Analyst

**Project Summary:** Business is interested in replacing existing legacy billing system with new Guidewire billing center and is expected to provide lot of new features and up to date with the present market. As part of which I am working on customizing the Guidewire data base as per client needs, creating new efficient, scalable ODS (operational data store) and create xsd’s for web services for almost 25+ integration points and master send data from ODS.

**Responsibilities:**

* Working with business users to know the business requirements.
* Reverse Engineer Guidewire data model.
* Enhance/customize Guidewire database and maintain Guidewire database xml-based changes in change log.
* Designed the ODS with core tables and now working on enhancing this model for additional master data.
* Worked with **ACORD** XSD structure and Property and Casualty Insurance data model.
* Used schema slicer to slice schemas (**XSD)** needed from **ACORD** and will be the first step in building the canonical XSD / **ACORD** Compliance.
* Created End to End database and service data mapping.
* Created the reference data architecture.
* Created Data Models on grievance data
* Created Logical Data Models and Physical Data Models using ERStudio Data Modeler.
* Created process flow diagrams by using **MS Visio** and maintained the design document.
* Extensively using the Erwin design tool & Erwin model manager to create and maintain the versions of the Inland Marine data model. Created integrity rules and defaults.
* Created documentation and test cases, working with users for new module enhancements and testing.
* Used Toad for Data Analyst extensively for data analysis and writing stored procedures, sql prototypes as needed.

**Environment**: Sq1 Server 2005/2008, DB2, Netezza, IBM InfoSphere Data Architect IDA, Data Stage, OBIEE, Oracle 10g/11i, Toad for Oracle 9.1 Expert, ER/Studio Data Architect 8.5.3, MS Visio, JAVA, XML, XML SPY, Windows XP, QC Explorer.

**EDUCATION**

**Bachelor of Technology in Electronics Engineering**, Jawaharlal Nehru Technological University, 2005, Hyderabad.

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