

Dongwei (David) Wang

Burke, Virginia

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Data Architect/Senior Data Modeler

Data Architecture

DataBase Administration
Erwin w/Model Repository
PowerDesigner w/Model Repository
IBM Infosphere Data Architect
Inman/Kimbal Modeling
STTM/ STM

Agile Project Management Methodology

Infosphere Information Governance Catalog
Enterprise Data Warehouse
System Integration
Star/Snowflake Dimensional Modeling
ER Studio w/Repository/Erwin
Requirements Gathering/Data Profiling/Mapping

Enterprise Data Modeling

Data Integration
Team Lead/Project Management
Data Lake/NoSql/Hadoop
SQL Development/Tuning
OLTP/OLAP
Data Dictionary

PROFILE

Data Architect experienced in all phases of Data Management and Data Warehousing. From the development and implementation of Data Marts and Operational Data Stores through full Enterprise Data Warehouse designs. Data model development from Conceptual to Logical and finally to Physical and DDL creation. Exceptional analytical and troubleshooting skills. Knowledgeable in financial, telecom, medical, and trail, and government environments. Team leader adept at coaching and mentoring. Strong hands-on developing skills with ETL developers, data streaming/pipe. Strong communication and interpersonal skills which contribute to the successful and on time delivery of projects.

Hardware Platforms and Databases

Unix, Linux, Microsoft

Oracle, Teradata, Netezza, DB2, SQL Server, Hive, Mangodb, Redshift, HDFS

Software, Languages and Applications

Hive SQL, T-SQL, PL/SQL, Shell Scripting, Python, Perl, Java Script
Informatica PowerCenter, Informatica MDM, Apache NiFi, Pentaho
Business Objects/Crystal Reports, Oracle discoverer, OBIEE, Tableau
ER Studio, Erwin Data Modeler, TOAD, AWS, Azure DevOps Tool

Professional Experience

Cognizant, Data Architect/Data Modeler

03/2022 - Present

- Supporting PepsiCo EDW data warehouse initiatives, analysis and development of Data Models for EDW data warehouse and data mart for PepsiCo Europe market Retail Order, Distributions and Transportations including Master Data and Dimensional Modeling.
- ER Studio 17 used for data modeling tasks
- Teradata utilized for tables
- Review User requirements for the migration EDW the Source to Target mapping document. Develop STTM including any data transformations
- Responsibilities included review of business requirements, physical modeling of tables, generating DDL, partitions, privileges and views .
- Developing Logical modeling of entities and attributes, including complete definitions for each. Collaboration with the business users needed when creating definitions
- Remodeling existing data model to integrate to Azure Data Lake with Azure DevOps for Repo/Branch creation, Epic-Feature-User-Story creation, Databricks development, Azure Artifacts and Test Plan as well as data model creation.

Dongwei (David) Wang

Page Two

Professional Experience Continued

Northwest Federal Credit Union, Data Architect/Data Developer
Herndon, VA

04/2019 - 03/2022

- Supporting Company Big Data and Data Warehouse Initiatives by gathering and reviewing data lake architecture documents and source to target mapping document
- Analyze data and data volumes to determine the optimal solution designs in accordance with coding standards and business requirements. Analyze system capabilities with the Infrastructure/Architecture teams and data model requirements
- Design and develop Conceptual, Logical and Physical data models for credit union's Online Banking data warehouse with bottom up approach that starts from functional data marts to warehouse. Using Erwin to develop a snowflake schema data model and develop DDL, STTM
- Support and develop pilot project to migrate an on-premise Oracle database to DataBricks DevOps/Git for agile code repository
- Design and develop data streaming/pipe using Apache NiFi to stream thousands of data files to Apache Hive on Hadoop. Develop Bash shell scripts to monitor NiFi, Hive loading processes as well as file system and HDFS maintenance.
- Review user requirements for Informatica MDM solutions and MDM architecture. Development of MDM mappings for credit card, checking, service loan and saving business.
- Solid expertise in Informatica for data extraction, data migration by designing and developing ETL mappings and workflows with complex business logics to load enterprise data mart/data warehouse. Develop Bash shell scripts for pre-data load and post tasks of ETL jobs. Tested Informatica workflow and deploy to Prod
- Access to and analysis of the Fiserv database to map and retrieve data to load into the EDW. Included were building the data model, creating DDL scripts and building the physical tables.
- Review of XML database scripts from FICO to model and create a Data Lake to hold the credit data. NoSQL/Comn used for modeling and developing the lake in preparation for state of the art access tools.

Booz Allen Hamilton, Inc., Sr. Developer/Data Modeler
McLean, VA

03/2015-04/2019

Supporting Navy Enterprise Business Solution Program Office

- Team with other vendors to architect, design and develop NAVY FMO NABIS OLTP AND Reporting data warehouse system, including gathering user requirements, developing data dictionary, design reports and ETLs, etc.
- Using Erwin to design and develop Conceptual, Logical and Physical data models of data warehouse with snowflake schema data mode. Provide DDL for tables, views and STTM, data dictionary for team
- Team with other vendors to architect, design and develop NABIS accounting data warehouse ETLs process. Defined and developed effective ways to capture and load raw data from various DON accounting systems
- Part of the integration team to provide engineering support in various facets of the DoD Acquisition Process for new Navy Enterprise Procurement System (ePS) at Navy Enterprise Business Solution Program Office. Developed and established interface data mapping process

to implement **data** mapping for ePS external interfaces that are required to adopt, PRDS (Purchase Request **Data** Standard), and PDS (Procurement **Data** Standard).

Supporting Compliance Office of U.S. Environmental Protection Agency

- Lead design and development **data** models of EPA ICIS Air **Data** Warehouse using Erwin. The **data** warehouse started from building **data** marts with snowflake design and included around fifty dimension tables

Dongwei (David) Wang

Page Three

Professional Experience Continued

- Review user requirements for integrating EPA compliance **data** source to target mapping document. Develop STTM including any **data** transformations
- Responsibilities included review of business requirements, physical modeling of tables, creating DDL scripts and building the physical tables, partitions, privileges and views
- Lead development of a real time **ETL** process for EPA ICIS Air **Data** Warehouse Catch **Data** Change (CDC) to support EPA Regulation Compliance office for real time reporting initiative. Worked as a Informatica PowerCenter and PowerExchange admin for Dev and Test environments

Cherokee National, Sr. BI Specialist/**Data** Modeler 01/2015-03/2015
Silver Spring, Maryland

- Supporting Armed Force Medical Surveillance Center (AFMSC)
- Lead design and development of AFMSC **data** integration project with more than one hundred **data** sources. The tasks included **data** cleansing, prioritizing **data** loading procedures, etc. using Oracle Stored Procedure, Informatica, UNIX scripting
- Development of Best Practice steps for model development.
- Creation of initial Logical **Data** Model (LDM) through analysis of existing Oracle database tables and relationships.
- Work with the **Data** Governance team to load the LDM into IBM Information Governance Catalog (IGC).

Booz Allen Hamilton, Inc., Sr. Developer 03/2014-01/2015
McLean, VA

Supporting Compliance Office of U.S. Environmental Protection Agency

- Worked as the lead developer and **data** modeler for development of EPA ICIS Air **Data** Warehouse. Provided architecture and database designs based on dimensional modeling. Led **Data** Integration design and development. Led design/mapping document development and revising. Used Erwin to create and modify EPA ICIS Air **Data** Warehouse model using dimensional model.
- Lead **Data** Integration design, modeling and development. Design, develop and revise mapping documents such as **data** dictionary, STTM. Used Erwin to create and modify Warehouse dimensional models and create DDL scripts for tables, views
- Develop Approval of Concept and Pilot project for real time **data** catch process to catch **data** increment change for near-real time **data** warehouse population.

- A DOD Health and HR **data** warehouse **Data** Modelers to catch and load several million rows **data** daily based on large plain format sources using Informatica, Oracle Stored Procedure, and UNIX scripts (AIX)
- Validated that the ODS was being created to mirror the HR Architecture Model.
- Created source to target mapping documents STTM to load the ODS and Enterprise **Data** Warehouse.
- Provided Master **Data** Management architecture **ETL** design and development via Informatica.
- Configure and Admin Informatica server for Oracle EBS based HR **Data** Warehouse project
- Lead Informatica Upgrade to version 9.5 and conduct security compliance for Informatica upgrade. This document was adopted by DIA as a guideline for mass upgrade activity.
- Developed Informatica deployment best practice and technical design documentation

Dongwei (David) Wang

Page Four

Professional Experience Continued

Verizon Communication, **Engineer**/System Consultant
Ashburn, VA

4/2002 - 11/2008

- Tools used were Erwin 8.1, IBM Infosphere **Data** Architect, and IBM **Data** Studio.
- Normalize and enhance an existing **data** model using industry standard 3NF concepts.
- Developed a Dimensional Model utilizing snowflake schema.
- Lead and accomplish over 30 ETLs for BI **Data** Warehouse and telecom provisioning, financial systems and trouble tickets systems.
- Using Erwin to design and develop Conceptual, Logical and Physical **data** models of **data** warehouse with stars chema **data** mode. Provide DDL for tables, views and STTM, **data** dictionary for team
- Architected, designed and developed Trouble Tickets view of Verizon Business CIO dashboard
- Developed hundreds of daily and Ad-hoc reports using Crystal Reports/Business Objects for Telecom business. Developed and accomplished more than 50 BI dashboards using Informatica **Data** Analyzer for executives and internal business entities which included some virtually real-time reports (refreshing every 15 minutes). Accomplished Verizon Global Network Inc. intranet and web application library from management applications to business-oriented applications using ASP, ASP.NET, Perl and Cold Fusion.

Education

M. S. -Environmental Engineering, University of Maryland at College Park
B. S. -Chemical Engineering, East China University of Tech, Shanghai, China
Certified IT Training -George Washington University

DAMA (OOnlineTraining)

AWS (Learning Tree)

Pentaho Training (Hitachi)

Informatica Training (Informatica)

Dongwei Wang

- Burke, VA, US

Contact Information

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- 7033952861

Work History

Total Work Experience: 1 year

- **Data** Modeler Cognizant
Mar 01, 2022

Education

- **Masters** | University of Maryland

Skills

- **data** warehouse - 53 years
- **mdm** - 46 years
- **data** modeling - 42 years
- **data** marts - 41 years
- **dimensional modeling** - 25 years
- **devops** - 20 years
- **epic** - 20 years
- **microsoft windows azure** - 20 years
- **retail** - 20 years
- **test plans** - 20 years
- **user stories** - 20 years
- **informatica** - 28 years
- **architecture** - 26 years

- **etl** - 26 years
- **scripting** - 22 years
- **snow flake schema** - 20 years
- **mapping** - 17 years
- **apache avro** - 16 years
- **apache hive** - 16 years
- **oracle sql developer** - 16 years
- **data migration** - 12 years
- **star schema** - 12 years
- **qa** - 10 years
- **logical data model** - 8 years
- **configuration** - 7 years
- **data engineering** - 7 years
- **physical data model** - 6 years
- **security** - 5 years
- **big data** - 4 years
- **apache hadoop** - 3 years
- **hdfs** - 3 years

Work Preferences

- Desired Work Settings: No Preference
- Likely to Switch: False
- Willing to Relocate: False
- Travel Preference: 25%
- Work Authorization:
 - US
- Work Documents:
 - US Citizen
- Security Clearance: False
- Third Party: False
- Employment Type:
 - Full-time
 - Contract - Corp-to-Corp
 - Contract - Independent
 - Contract - W2
 - Contract to Hire - Corp-to-Corp
 - Contract to Hire - Independent
 - Contract to Hire - W2

Profile Sources

- Dice:

<https://www.dice.com/employer/talent/profile/c0e07ec8890ee29b9df323da96b99b22>