

# JESSICA CLAIRE

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## PROFESSIONAL SUMMARY

Senior IT Developer with expert-level acumen in application development and delivery of new technology capabilities around Data and Analytics space by transforming data into insights and turning those insights into strategy. Innovative and creative problem solver with proven track record in improving operational excellence and enabling business capabilities for organizational strategy and competitive positioning. Excellent interpersonal dexterity with proven ability to converse, liaise, negotiate and relate with key Stakeholders and client’s global projects.

### Area of Expertise

Over 15 years of experience in architecting, designing, implementing complex, high performance, scalable IT solutions with specific interest in creating data systems - operational data stores, information data warehouses and business intelligence applications.

- **Data Modelling:** 8+ years of experience in E/R modeling for OLTP, Anchor modeling for enterprise Data warehouse (EDW) and Dimensional modelling for OLAP data marts using Star/Snowflake schemas. Extensively worked on Reverse/Forward Engineering to generate Conceptual, Logical and Physical models using Erwin and Oracle Designer tools. Extensively worked on Establishing Enterprise Data Standards, Policies, Guideline, Data Management practices, Data Security, Developing and Managing Data Models, Metadata management and Master Data Management.
- **Database/ Data warehouse Development:** 12+ years of strong experience in Data Warehouse Full Software Development Lifecycle (SDLC). Extensively worked in all the phases of Data warehouse development including Business Requirement Gathering, Converting Business requirements into Functional and Technical specifications, Data Analysis, Data Architecture, Design, Development, Testing & Implementation of ETL and BI applications.
- **Extract-Transact-Load (ETL/ELT):** 10+ years of extensive experience with ETL & BI Architecture, Design, Development, Testing and Implementation using Oracle PL/SQL. Extensively developed and implemented ETL process following Ralph Kimball’s Dimensional Modeling concepts.
- **Business Intelligence and Data Visualization:** 6+ years of experience in building rich and dynamic dashboards and reports using Tableau, Birst, Business Objects and Crystal reports to deliver actionable insights. Extensive experience using Python and its libraries for data processing and data visualization.
- Excellent knowledge of agile fundamentals, extensive experience of working in and managing agile project, task planning, workflow scheduling, and customer-in-loop development.
- Communicates effectively with executives, management, peers, subordinates, and customers enabling and fostering professional relationships.

## SKILLS

- **Development tools/Languages:** SQL, PL/SQL, Birst BQL, Shell script, C#, ASP.NET, Web Services, JavaScript, XML, C, C++, Python, Tableau, Spark
- **Middleware/Databases/ETL:** Oracle 9i/10g/11g/12c, MS SQL Server 2008/2012, Informatica Power Center
- **Software Product/Platforms:** Oracle SQL\*PLUS, SQL\*Loader, Oracle Enterprise Manager, TOAD, Erwin Data Modeler, Oracle SQL Data modeler, Tableau, Tableau Desktop, Tableau Server, Birst Business Intelligence Platform, Microsoft Visual Studio, Business Objects, Crystal Reports, AWS QuickSight
- **Change Management** - Team Foundation Server, PVCS, GIT
- **Processes** - Agile, Waterfall
- **Operating Systems:** Windows, Linux

## EDUCATION

JNTUA  
India • 06/2005

*Bachelor of Science:* Electronics

## WORK HISTORY

**Adb Airfield Solutions - Senior Datawarehouse/ ETL/ BI Developer**

*Columbus, OH • 06/2011 - Current*

- Lead design and development of the Enterprise Data warehouse (EDW) and Operational Data Store (ODS) in Agile environment while working with program staff across the organization to build automated data solutions for analytics and reporting.
- Provided consultation on complex projects and was considered top level contributor for most phases of systems analysis, while considering the business implications of the application of technology to the current and future business environment.
- Devised and modified procedures to solve complex problems considering computing capacity, limitations and operation time. Suggested processing improvements that saved over 3 hours for each automated daily night cycle.
- Created data models for relational schemas (OLTP) and dimensional schemas (OLAP) with proper normalization and de-normalization techniques using Erwin and Oracle designer.
- Created the (ER) Entity Relationship diagrams and maintained corresponding documentation for corporate data dictionary with all attributes, table names and constraints.
- Designed data models following Ralph Kimball’s dimensional modeling concepts - Star and Snowflake schema, slowly changing Dimensions (Type1, Type2, and Type3).
- Implemented ETL/ELT processes by extracting data from Oracle OLTP, SQL Server, CSV, XML, JSON using APIs, shell scripts, Oracle SQL loader. Developed Complex database objects like Stored Procedures, Functions, Packages and Triggers using SQL and PL/SQL for transforming and loading the data into dimensional data marts and OLAP cubes.
- Worked on SQL\*Loader to load data from flat files obtained from various facilities every day. Used standard packages like UTL\_FILE, DBMS\_SQL, and PL/SQL Collections and used BULK Binding involved in writing database procedures, functions and packages.
- Developed scripts in Python to parse JSON documents and load the data in relational database.
- Implemented advanced concepts like Collections, Bulk Collect, Dynamic PL-SQL, Exception Handling, Global Temp Table, Nested Tables, External Tables, Advanced Queuing, Analytical functions and REF Cursors to perform ETL.
- Effectively made use of Table Functions, Indexes, Table Partitioning, Collections, Analytical functions, Materialized Views, and Query Re-Write.
- Performed root cause analysis on failures. Resolved performance tuning related issues and queries using Hints, EXPLAIN PLAN, TKPROF, SQL Trace, Indexing, and Partitioning.
- Performed data migration into data warehouse using Shell script, Oracle External Tables, SQL\* Loader, Import/Export, bulk and batch processing.
- Automated different workflows using UC4 automation.
- Responsible for analyzing the quality of source data and designing and implementation of data quality controls.
- Designed and developed efficient Error Handling methods and implemented throughout the mappings.
- Built rich and dynamic dashboards and reports using Tableau and Birst to deliver actionable insights.
- Generated 300+ canned reports, sub-reports, drill-down reports, drill-through reports and parameterized reports to provide visible data for data analysts and business using Business Objects and Crystal Reports.
- Migrated over 300+ reports from Crystal reports to Birst and Tableau.
- Developed and managed over 60 dashboards consisting 400+ KPIs/charts on Birst and Tableau BI platform that are used by management and employees across multiple departments.
- Trained over 80 end users across multiple departments on how to use dashboards and interact with Birst and Tableau Server.
- Worked on Tableau online and Tableau Server POC’s.
- Migrated change management system from PVCS to Microsoft TFS.
- Worked with Business Analysts and QA team to implement agile development practices including project scoping, analysis, design, development, testing, and implementation of ETL and BI applications.
- Served as backup for Oracle Database administrator for analysis of Oracle sessions, tablespace usage and indexes.
- Provide support, root cause identification for any Production issue during the warranty period after post implementation, conducted walk-through meeting and guiding I/T support.
- Successfully completed POC for using Informatica for ETL.
- Maintained Defect tracks, Bug fix, ad hoc Reports, projects and assigned works using JIRA tools.

**Blackwell Consulting LLP - Senior Datawarehouse/ ETL/ BI Developer**

*City, STATE • 05/2010 - 05/2011*

- Lead projects at various stages from requirements gathering and business rules analysis to creating physical database model, ETL development ,BO Universe Architecture and Reporting.
- Lead and improvised existing Enterprise Data Warehouse
- Instrumental in creating process , procedures, policies and standards for data warehouse implementation
- Designed conceptual data model based on the requirement, Interacted with non-technical end users to understand the business logics.
- Modeled the logical and physical diagram of the future state, Delivered BRD and the low level design document
- Successfully led the Analytics team, implemented various reporting and analytics projects using Excel Dashboards, Birst and Crystal Reports.
- Supported thousands of users and hundreds of reports across all organizational units and business functions by maintaining an active and trusted business intelligence environment
- Created PL/SQL stored procedures, functions and packages for moving the data from staging area to data mart.
- Conducted and improved database performance tuning by SQL statements, index tuning, creating materialized views, and data warehousing.
- Extensively involved in using hints to direct the optimizer to choose an optimum query execution plan.
- Used Bulk Collections for better performance and easy retrieval of data, by reducing context switching between SQL and PL/SQL engines.
- Generated server side PL/SQL scripts for data manipulation and validation and materialized views for remote instances.
- Created Shell Scripts for invoking SQL scripts and scheduled them using cron tab.
- Wrote Unix Shell Scripts to process the files on daily basis like renaming the file, extracting date from the file, unzipping the file and remove the junk characters from the file before loading them into the base tables.
- Involved in the continuous enhancements and fixing of production problems.

**Deloitte Consulting LLP - Senior Web and Database Developer**

*City, STATE • 01/2007 - 04/2010*

- Provided consultation on complex projects and was considered top level contributor for most phases of systems analysis, while considering the business implications of the application of technology to the current and future business environment.
- Lead meetings with the Business users to capture, collate and document business requirements for project implementation.
- Responsible for development of technical programs and components for the system using Microsoft ASP.NET, C#, writing procedures in Oracle database, creating reports using Crystal Reports.
- Proficiently worked with Logical, conceptual and physical data models also created various dimensions for warehousing data process.
- Involved in data profiling and cleanup process after requirement analysis for the Data Mart.
- Generating scripts and schemas by using reverse engineering through Erwin Data Modeler.
- Responsible for developing, support and maintenance for the ETL (Extract, Transform and Load) processes using Oracle PL/SQL.
- Extensively used ETL to transfer and extract data from source files (Flat files, JSON and XML) and load the data into the target database.
- Responsible to tune ETL procedures and STAR Schemas to optimize load and query performance.
- Created complex SQL, PL/SQL Functions and Procedures, Packages, Cursors, Triggers.
- Analyzed all technical design documents and development of various Data flow diagrams, data models, PL/SQL packages and database objects to provide support to developers.
- Developed PL/SQL procedures/packages to kick off the SQL Loader control files/procedures to load the data into Oracle.
- Worked on LIST, HASH Table Partitioning, STATS Gathering, Table Analysis and various Oracle Indexes.
- Wrote PL/SQL procedures for reconciliation of financial data between source and target to automate testing phases and help business for preliminary validation.
- Fine-tuned procedures/SQL queries for maximum efficiency in various databases using Oracle Hints, for Rule based optimization.
- Created GLOBAL TEMPORARY TABLES to handling multilevel data staging operation.
- Extensively worked on Oracle Query Optimization, performances tuning using EXPLAIN PLAN, DBMS PROFILER and re-engineering the existing process with highly efficient and robust.
- Monitored and maintained health of the assigned modules as per all application.
- Develop and documented Data Mappings/Transformations as over the business requirement.
- Participating in user acceptance testing and hand holding the business users as necessary.

**Agile InfoSystems Private Limited - Software Developer**

*City, STATE • 09/2005 - 12/2006*

- Designed and developed multi-tier data driven web applications in support of internal and external organizational needs.
- Understand data and business intelligence requirements to ensure system compatibility and transform complex customer business requirements into effective, efficient, and maintainable enterprise-level solutions.
- Developed physical data models and created DDL scripts to create database schema and database objects
- Designed data models using Erwin.
- Wrote user requirement documents based on functional specification.
- Created new tables, written stored procedures, triggers for Application Developers and some user defined functions. Created SQL scripts for tuning and scheduling.
- Involved in performing data conversions from flat files into a normalized database structure.
- Developed functions, views and triggers for automation
- Extensively used Joins and sub-Queries to simplify complex queries involving multiple tables and also optimized the procedures and triggers to be used in production.
- Provided disaster recovery procedures and policies for backup and recovery of Databases.
- Performance Tuning in SQL Server using SQL Profiler and Data Loading.
- Supported the testing team in Integration and User Acceptance Testing.