**ETL and BI Solution Architect, Project Manager**

**Technical & Management Expertise in a Career Spanning over 20 Years**

* 20+ years of IT experience in Data Warehouse, Big Data and Business Intelligence architecture, design, development and implementations on Cloud / on-premise platforms
* Full life cycle experience in ETL/ELT, Data Migration/Conversion, Data Modeling, Master Data Management, Data Governance, Data Profiling and Data Quality
* In depth knowledge of Performance tuning & Optimization of ETL processes, sessions and workflow/task flow and Database SQL
* Experience in UNIX shell scripting, automation of integration processes using Oozie, Autosys and Control-M.
* Pioneered in Data modeling using Erwin, Embarcadero and Power Designer
* Experience in Data Warehousing and Database Management. Areas of specialization include Data Architecture, Data Modeling (Both Dimensional and Relational Models), Data Analysis, Database Design, Data Federation, Data Integration (ETL), Metadata/Semantic/Universe Design, Static and OLAP/Cube Reporting and Testing.
* Excellent knowledge and experience in OLTP/OLAP System Study with focus on Oracle Hyperion Suite of technology, developing Database Schemas like Star schema and Snowflake schema (Fact Tables, Dimension Tables) used in relational, dimensional and multidimensional modeling, physical and logical Data modeling using Erwin9.6, ER Studio
* Spearhead initiatives to build Management Dashboards, Reports and OLAP cubes using SSAS/SSRS, Tableau, Cognos and SAP BO
* Instrumental in building Data Integration Strategy and Roadmap for integration of data from operation source systems into Target Data warehouse systems using industry standard architecture principle
* Experience in ingestion of structured, semi-structured and unstructured data sources including Oracle, blob, SQL Server, Flat Files, XML files, Oracle APIs, Salesforce APIs, COBOL files and Mainframe
* Set standards and best practices to enable building and deploying Scalable Data integration projects
* Generated ad-hoc SQL queries using joins, database connections and transformation rules to fetch data from Teradata database.
* Conversant with ISO quality procedures, SEI CMM Level 5 core principles and well versed with Waterfall, Iterative, V-Model, Spiral, XP, Agile (Scrum) implementations
* Well versed with Big Data/ Data Lake implementation on Cloud platforms including Hadoop, Snowflake and Microsoft Azure.
* Good knowledge in OLAP, OLTP, Business Intelligence and Data Warehousing concepts with emphasis on ETL and Business Reporting needs.
* Acquired thorough domain knowledge in Banking, Credit Cards, Securities, Insurance, Healthcare, Oil & Gas, Media & Entertainment and Telecom Line of Business.
* Persistent delivering DW/BI projects on time and under budget for premier organizations in US, Asia and Americas.
* Good at negotiating, mediate, consult and advise technology solution implementation with business stakeholders and partners.

**Professional Experience Summary**

Working as ETL Solution Architect and BI Consultant in USA for more than of 6 years

Worked as BI Project Manager in Singapore for one year

Worked as DW Project Manager and IT Delivery Manager in India for a span of 11 years

Worked as ETL Lead in USA for 6 years

**Areas of Expertise**

* Data warehouse & Business Intelligence Solution Architecture
* Informatica Cloud, PowerCenter/PowerExchange Solution Architect
* Data Architecture, Data Quality Assessment, Master Data Management
* Expertise in Data Migration project implementations
* Working Experience on Big Data Hadoop Data Integration
* Experience in Data Modeling and Data designs
* Well versed with Data Lake implementation on Snowflake and Microsoft Azure
* Business intelligence (Microsoft BI, SAP BO, Tableau) Solution Architect
* Unix Shell Scripting and SQL scripting
* Project Management, Planning and Execution
* Hands-on experience on Legacy Mainframe systems Cobol programming and Job control language

**Technical Skills**

* DW BI skills: Data Warehouse, Data Lake Architecture, ETL & BI solution designs, Data Quality Assessment, Data Profiling, Master Data Management, Data Modeling, Star / Snowflake Schema designs, Database design, Big Data, Data Lakes design
* Knowledge of Databases, Data Lakes: Oracle, UDB, Hadoop Big Data, MPP, Azure Data Storage, IMS/DB, Sybase, MS Access, MS SQL server, Snowflake MCSD, Virtual Warehouse
* Programming Languages Expertise: Oracle PL/SQL, ANSI sql, TSQL, Unix Shell Programming, COBOL, JCL, Hive SQL, Snow SQ
* Technical Tools & Utilities: Worked on Informatica Cloud, Informatica PowerCenter, PowerExchange, IDE/IDQ, Metadata Manager, MSBI (SSIS, SSAS, SSRS), Trillium (Discover, Develop), SAP BO, Tableau, SQL plus, Hadoop Big data, HDFS, Podium, Talend, Sqoop, Oozie, Snowpipe, Jira, Git, Bitbucket, SourceTree, IBM DB2 development center, SQL Navigator, Golden Benthic, TOAD, ERWin, Power Designer, Microsoft Visual Studio, Microsoft VISIO, TSO/ISPF, XPEDITER, FILEAID, MF Revolve, Service Center, Control – M, Autosys, Cognos Impromptu reporting
* Operational/Management Tools: MS Office, MS Project, SharePoint, VSS, SVN, PVCS, ChangeMan DS, MS SharePoint, MS Excel
* OLAP Tools: Business Objects, Info View, WebI, and Oracle Discoverer, Crystal Reports
* Tools & Software: TOAD, MS Office, BTEQ, Teradata 15/14.1/14/13.1/13 , SQL Assistant

**Education & Credentials**

* Master of Computer Application from Madurai Kamaraj University, MADURAI (TN), INDIA
* Bachelor of Computer Science from Nagarjuna University, GUNTUR (A.P), INDIA
* PMI certified Project Management Professional (PMP)
* Acquired thorough knowledge of Enterprise Architecture using TOGAF 9.1 framework
* Certified on Global Business Leadership & Finance for non-finance leaders’ program by U21 Global University in Collaboration with Harvard Business Publishing
* TUSC certified Advanced PL/SQL programmer

**Professional Experience:**

**DW-ETL Snowflake Solution Architect / Lead (July 2015 – Till Date)**

 **Client: TD Bank**

**Location: Mount Laurel, NJ**

 **Project: Basel Lending Data Mart**

The Basel/Lending Data Mart at TD Bank North America is a central repository that captures data from various sources and provides data for Regulatory Reporting and analytical purposes. Data Mart is built on architecture principles to support of high availability, latency, scalability, mixed load frequency, preserving source data lineage, Dimensional modeling with alternate hierarchies, bi-directional and cross subject drill across capabilities, reference data maintenance, customization and many other industry standard features. As part of acquisition strategy, TD Bank continues to upgrade their portfolios by migrating legacy systems onto Salesforce platform further requiring maintenance of the Data Warehouse by integrating newer portfolios into the Data Mart for regulatory reporting as required. Goal of these integration projects is to bring historical and on-going data from external sources into Bigdata provisioning platform and integrate into the Enterprise Data Warehouse with seamless transition within the stipulated time.

Environment: Informatica, Oracle, Hadoop Bigdata, Podium, Sqoop, oozie, HDFS, Hive sql, Linux SUSE, HP Unix, SQL Developer, Toad, Power designer, Business Objects, Tableau, Informatica Power Exchange

**Key Responsibilities & Achievements**

* End-to-end management of technical development and delivery of data solution
* Build Data Integration Strategy and Roadmap for integration of data from source systems into target systems
* Developed Teradata BTEQ scripts to Load data from Teradata14.1 Staging area to Data Warehouse, Data Warehouse to data marts for specific reporting requirements.
* Good knowledge in Star schema and Snowflake Schema.
* Participate in requirements analysis workshops to prepare the architecture Blueprint
* Build Solution designs for data integration from various source systems into target entities
* Experience in various Teradata utilities like Fastload, Multiload, BTEQ, and Teradata SQL Assistant.
* Expert in writing SQL queries and optimizing the queries in Oracle, SQL Server and Teradata.
* Design conceptual model and build the ETL architecture for implementation
* Experience in designing star schema, Snowflake schema for Data Warehouse, ODS architecture.
* Design and developed the End user Layer and Workbooks to support the Discoverer OLAP development to provide the visibility to the top-level management.
* Experience in BI/DW solution (ETL, OLAP, Data mart), Informatica, BI Reporting tool like Tableau and Qlikview and also experienced leading the team of application, ETL, BI developers, Testing team
* Create Proof of concept and conduct playback sessions using SQL Developer, Informatica, Business Objects and other tools
* Designed and implemented effective Analytics solutions and models with Snowflake.
* Examined and identified Data warehouse structural necessities by evaluating business requirements.
* Developed ETL pipelines in and out of data warehouse using combination of Python and Snowflake’s Snow SQL.
* Participated in a collaborative team designing software and developing a Snowflake data warehouse within AWS.
* Tune and Troubleshoot Snowflake for performance and optimize utilization.
* Written SQL queries against Snowflake
* Create re-usable frameworks to enable future integration projects
* Work with Enterprise architecture team on formalizing solution patterns and models
* Build detail designs for ETLs, process flows and task flows
* Perform requirement, test case and code reviews
* Performance tuning, troubleshooting and overall solution development lifecycle management
* Project Planning including Scope, Risk, Time, Quality, Cost, Training and Resource Planning
* Timely activity/issue/risk tracking, monitoring, managing and controlling

**DW-ETL Architect (June 2014 – June 2015)**

 **Client: Tyco Integrated Securities**

**Location: Boca Raton, Florida**

 **Project: Go to Cash**

TycoIS envisions transforming business capabilities (processes, data flows, and technologies) across Sales, Install, Service, Finance and Controllership functions by replacing legacy order-to-cash systems with Oracle E-Business Suite and integrating with key sales and operations systems. This Transformation program is being built to achieve productivity and cost improvements including benefits in DSO, Bad Debt, Retention, FTE reduction, and technology optimization. The architectural foundation for the implementation is designed to leverage global implementation, acquisitions and multiple roll-outs. As part of this, a Data Migration/ Data Quality Framework using Informatica & Trillium is designed for Legacy systems Migration into Oracle EBS suite of applications for Customer, Order, Sales, Contracts and Finance Management.

Environment: Informatica, Trillium 15.0 (Discover, Develop BDP, CDP), Oracle 11g, AIX 6.1.0.0, Oracle EBS, Embarcadero 4.0.3, SQL Developer

**Key Responsibilities & Achievements**

* Build overall Data Migration Strategy and Roadmap for conversion of data from legacy source systems into target systems
* Build Data Quality Assessment Strategy (using Trillium) to fit into overall Data conversion and Migration implementation
* Review the Current state systems and build a Strategy for Migration of Legacy Applications into future state Oracle EBS
* Worked in Relational Database Concepts, Entity Relation Diagrams, Normalization and De-normalization Concepts.
* Successfully loaded files to hive and HDFS from Oracle and Involved in loading data from UNIX file system to HDFS and involved in the validation of the OLAP Unit testing and System Testing of the OLAP Report Functionality and data displayed in the reports.
* Capture Data conversion requirements and build Functional designs for data conversion from various source systems into target entities
* Build Data Profiling and Data Cleansing Rules for Data Quality assessment done as part of data conversion
* Build ETL designs for Error, Exclusion, Exception handling
* Design conceptual model and build the ETL architecture for implementation
* Build Re-usable Informatica framework designs for Data load Audit and Reconciliations
* Detail designs for Data conversion ETLs, process flows and Workflows
* Work with Data Archival team to build a Roadmap and strategy for Data Archival using Informatica ILM
* Project Planning including Scope, Risk, Time, Quality, Cost, Training, Configuration and Resource Planning
* Timely activity/issue/risk tracking, monitoring, managing and controlling

**DW Solution Architect (June 2012 – May 2014)**

 **Client: UBS**

**Location: Weehawken, NJ**

 **Project: TLM Reconciliation Extracts**

UBS Wealth Management Americas (WMA) has more than 125 reconciliations performed across different departments. Some of the reconciliations are entirely manual. Other reconciliations are automated, performed across multiple legacy applications. The current process is inconsistent and not standardized with limited audit trails and workflow capability. WMA business is looking to utilize the Transaction Lifecycle Management (TLM) based Global Reconciliation Utility currently being used by Investment Banking (IB) division to centralize the reconciliation process and bring in the efficiencies offered by the utility. The existing reconciliation processes performed by WMA Operations personnel is redesigned using the TLM reconciliation tool which is the global firm standard. WMA Operations does not have a standard process for reconciliation activities; moving to the TLM tool supports the standardization and efficiency goals that WMA is looking to achieve. This project is to build an ETL layer to extract WMA legacy data from Enterprise data warehouse, KeyLink, Remote Data Capture and other systems and send the Cash, Positions, Stock transactions and Inter system data to TLM in standard format via secured file transfer protocol. The GRU IT team will further process the data in TLM and perform the reconciliations.

Environment: Informatica PowerCenter 9.1, Informatica PowerExchange 9.1, Oracle 11g, AIX 6.1, Toad

**Key Responsibilities & Achievements**

* Assess the application topology, architecture and provide a BI architecture solution fit for implementation
* Set up end-to-end design-build-deploy platform for DW-BI implementation of TLM feed extracts
* Design conceptual model and build Informatica architecture for implementation
* Build high level and Detail designs for Data warehouse and BI systems
* Designs for automating regular report generation processes using Control-M and Informatica PowerCenter Utilities
* Design Legacy data extracts using Informatica PowerExchange and PowerCenter
* Design end-to-end ETLs, process flows and Workflows
* Project Planning including Scope, Risk, Time, Quality, Cost, Training, Configuration and Resource Planning
* Build Robust Project management mechanisms to capture measurable Metrics to assist in Project assessment and continuous improvement
* Timely issue/risk tracking, monitoring, managing and controlling

**ETL Data Quality Architect (November 2011 – April 2012)**

**Client: Microsoft Corporation**

**Location: Hyderabad, India**

**Project: Enterprise Business Intelligence - Data Quality**

Client’s manufacturing and Supply Chain group envisions building a robust platform to deliver Enterprise Business Intelligence requirements for executive management to take key business decisions around Managing Tier1-TierN supplying vendors, Product Planning, Sales forecasts and Worldwide supply chain management. As part of the EBI (Enterprise business Intelligence) platform implementation, a key initiative is set to delivery Data Quality Checks, reports and alerts to various project teams to identify Data anomalies in OLTPs and DW loads that will help take corrective actions there by enhance the overall quality of the Warehouse and dependent systems. The Data Quality initiative involves providing a generic, customizable, repeatable platform to perform various checks such as Accuracy, Consistency, Completeness, Uniqueness, Timeliness and Freshness.

Environment: Informatica PowerCenter 9.0, Informatica Data Quality (IDQ), Informatica Data Explorer, SQL Server 2005/2008, Windows 7, Toad

Key Responsibilities & Achievements

* Build Framework to deploy ETL solutions at a faster pace in agile environment
* Capture requirements for designing ETL solutions using Informatica PowerCenter and IDQ
* Provide Technical, design and architectural support to address key performance challenges in the Workflow frameworks there by help bring the overall executions down into the agreed upon SLAs
* Identify and build comprehensive design alternatives to perform End-to-End implementation and verify the capability catering to the business requirement
* Preparing plans for User story releases and execution of tests
* Work closely with Review team and provide all deliverables for review before release
* Perform SIT tests and document the results
* Conduct daily Stand-up and Triage meetings to address operational and project execution risks and challenges
* Liaise with Administration team to deploy the solutions into Production environment

DW-BI Solution Architect (January 2011 – September 2011)

Client: Indian Oil Corporation

Location: New Delhi, India

Project: CARE Reporting

Indian Oil Corporation set to venture into Polymer business and capture major share of business by producing polyethylene and polypropylene from its own plant. To capture this potential, a new system named Customer Acquisition, Retention and Enrichment (CARE) Platform is being built with a special Program Management office setup to oversee the Software Integration. The CARE initiative includes building a robust, interactive, current and accurate reporting and Business Intelligence platform to provide executive managers, Field force and other internal/external users insight into the Delivery, Sales, Distribution and Production capabilities of Polymer across Grades, geographies, business unites and other dimensions there by enhance the overall performance of CARE.

Environment: MSBI (SSIS, SSRS, SSAS), SQL server 2005/2008, Oracle 11g, Windows 2003, Microsoft Dynamics, MS Access

Responsibilities and Accomplishments as DW/BI Architect include

* Assess the application topology, architecture and provide a BI architecture solution fit for implementation
* Set up end-to-end design-build-deploy platform for DW-BI implementation for CARE system using MSBI stack of Technologies including SSIS, SSRS and SSAS on SQL server environment.
* Design conceptual model and build the Star schema data model for DW-BI
* Build high level and Detail designs for Data warehouse and BI systems
* Designs for automating regular report generation processes
* Design ETLs, process flows and Workflows
* Design and build OLAP Cubes using SSAS to facilitate Dashboard builds
* Design and build online MIS analytical Reports and dashboards
* Setup monitoring and control measures to track the execution of the development activities
* Execute the development activities
* Managing Teams across Geographies including internal, client and Contract personnel

ETL Architect (November 2010 – December 2010)

Client: EMTEL

Location: Mauritius

Project: EMTEL EDW

EMTEL Ltd is a leading operator of cellular telephony in the Republic of Mauritius. The scope of the project is on a turnkey basis to propose and develop the best architecture of a Data Warehouse which will interface with various current and future platforms and provide an improved access to information and fostering more informed decision making. As part of the DW-BI implementation, setup an onshore-offshore Model to design, build and deploy the Warehouse using Oracle Warehouse Builder and setup the Management Dashboards and Business Intelligence/operational reports using OBIEE.

Environment: Informatica PowerCenter 8.5, Informatica Data Explorer (IDE), Oracle 10g, OBIEE 10.1, HP Unix 11i, SQL Developer, Toad, MS Access

Key Projects & Achievements

* Conduct ETL design reviews and provide ETL coding best practices for implementation
* Analyze Report requirements and build Report conceptual Models
* Provide inputs for ETL process automation to setup Job control and restart logic
* Review the ETL architecture and propose inclusions for restorability, handling default Dimensions, handling rejects in Fact loads
* Materialized views/Report ready tables
* Provide Data warehouse architecture and inputs for Data Mining strategy
* Process review to understand report requirements and finalize Model changes before development
* Reporting architecture design suggestions

DW-BI Solution Architect (March 2010 – September 2010)

Client: StarHub

Location; Singapore

Project: EDW

StarHub, one of the largest Integrated Telecom and broadband/cable operators in Singapore has initiated a program named Renaissance, to migrate its legacy systems (BSS for portal, CRM, billing, BI, oss, eai etc.) and build Corporate data warehouse for Operational reporting as well as MIS and Business intelligence. Part of the delivery of the program is integration of 2 disparate systems, coming from 2 different organizations

Environment: Informatica PowerCenter 8.5, Oracle 9i, ERWin 3.5.2, SAP BO XI R1, MS Access, Toad

Key Projects & Achievements

* Design and build Reporting Framework to deploy BO reports using web interface
* Bring the Logical and Physical data model onto Dimensional structure onto BO Universe
* Work with Technical teams to address Database design challenges by bringing BO features including use of Derived tables, embedded objects and others.
* Capture requirements for design and migration of legacy reports to BO XI
* Work with business and end users to setup scheduling framework and delivery of reports to Web and user Inboxes
* Build change management process for development, progression and implementation of BO objects in different development environments
* Liaise with Administration team to build the Backend database architecture and server installation
* Work closely with Fix, solution and operations teams to address development and testing inter dependencies in test and fix cycles
* Co-ordinate with Apps teams to get required data from sources fed into CDW for comprehensive functional and Regression testing
* Provide Technical, design and architectural support to address key performance challenges in ETL Workflow frameworks there by help bring the overall executions down into the agreed upon SLAs

ETL Solution Architect / Project Manager (September 2006 – February 2010)

Clients: Anthem, UHC, Assurant

Location: Hyderabad, India

Project: Health Care Service Provider Engagements

Assumed the role of Project Manager / Solution Architect in leading the delivery for prime customers on diverse platforms and technology such as legacy mainframe, AS400, .Net framework, Data warehouse business intelligence, BPM and SAP implementations. Instrumental in exceeding the business targets consistently over the period contributing to the investors delight. Put together innovative project management techniques in various phases/processes of project execution life cycle to drastically improve the delivery efficiency there by reducing overall cost of delivery. Acquire customer trust and retain the delight at the highest level by consistently delivering quality product.

Key Projects & Achievements

As BI Solution Architect, achieved

* Building Delivery excellence framework
* Setting up Delivery Excellence team to perform BI project reviews across the organization
* Identify underperforming critical projects within the organization
* Data mart and Database designs using Star schema methodology
* Designs for automating regular report generation processes
* Design ETLs, process flows and Workflows
* Design and build OLAP Cubes using to facilitate in Dashboard builds
* Design and build online MIS analytical Reports and dashboards

As a Data warehouse/BI Manager, instrumental in

* Setting up operations from Offshore location (including resource management, network connectivity, firewall setup, project initiation and other activities)
* SLA Management, Contract Management
* Project planning, monitor and control and Project closure activities
* Collect project metrics and build management dashboards to present BI projects performance summary
* Conduct Project reviews, identify gaps, issues, challenges and provide solutions and technology support
* Collaborate with Business and competency teams to leverage technology
* Work with knowledge management team to build assets and accelerators

Senior ETL Lead (August 2000 – August 2006)

Client: WellPoint, Anthem

Location: St Louis, Missouri

Project: Dental Data Warehouse, D950 to EDW Migration, EDW development, PGPP

Managed and executed various Legacy and Data warehouse projects for the largest Health care Provider in United States. Instrumental in deploying key data warehouse projects, Corporate Dental data warehouse and West region Enterprise data warehouse. Provided end-to-end SDLC and Project Management solutions resulting in dramatic return on investment for the budgeted businesses. Retained original and acquired numerous high-profile migrations, maintenance and support modules to execute in onsite-offshore model.

Environment: Informatica PowerCenter 6, 7.1, Oracle 8, PLSQL, IBM UDB, ERWin 3.5.2, MS Access, IBM Mainframe

Key Projects & Achievements

* Spearheaded and managed one of the critical phases of West region Data warehouse builds to migrate Diamond 950 source into data warehouse. Successfully implemented the module on time and well within budget paving a way to bid and acquire future projects from the client.
* Built ETL designs for Enterprise Data Warehouse implementation
* Migration of Legacy Mainframe Reporting processes to Enterprise Data warehouse using Informatica and Oracle PLSQL
* Provided a flexible, robust and efficient solution to measure the Quality of care for the new Provider gain share business that facilitated the underlying business to be recognized as the best Physician Group Participating Programs in United States
* Built numerous performance enhancement solutions that can be plugged into any module within the ware house that dramatically improved customer satisfaction index
* Inherited a module from Dental Data warehouse in a state of almost impossible and applied a series of design changes to convert and deploy as a fully automated process
* Prepare and maintain an ongoing project knowledge data base to be used as the single source of reference for core SDLC team as well as for new entrants
* Transitioned a key Legacy production and reporting system from outgoing client team and streamlined the same to be maintained and supported using the onsite-offshore model simultaneously providing numerous Department of State Insurance requests and large client requests through the same delivery unit.

Developer / Tech Lead (October 1996 – July 2000)

Clients: Blue Cross Blue Shield

Location: Hyderabad, India

Project: Legacy Y2K conversion, HEDIS Migration

Started as an Entry Level Trainee and acquired thorough knowledge of industry software development practices and put them into project execution. Acquired comprehensive knowledge of various Y2K (Year 2000) solutions and successfully implemented in the projects.

Successfully implemented the first Data warehouse Migration project for Health insurance customer. Involved in planning, work allocation, monitoring, execution and software configuration management of applications scaling from individual modules to huge projects. Toured to onsite to interact with client and gather requirements to translate into designs to be implemented at offshore.

Environment: Informatica PowerCenter 6, Oracle 8, MS Access, IBM Mainframe, TSO/ISPF, COBOL, JCL

Key Projects & Achievements

* Successfully implemented Y2K sliding window technique for multiple modules within Blue Cross Blue Shield of Missouri Legacy system by executing Satyam’s unique Y2K solution package
* Built an independent re-usable package to handle Statistics by Location information from Legacy State Farm Fire division to be deployed and integrated into Stat by Location Module
* Instrumental in building a fully-fledged Test environment within an LPAR to facilitate a steady stream of Y2K converted modules to traverse and move forward into production environment. Traveled onsite to install few components within the package to install the new LPAR
* Provided innovative solutions using Informatica PowerCenter to facilitate migration of Legacy HEDIS reporting to Data warehouse and successfully implemented HEDIS 2000 measures on new package
* Built end-to-end Designs for fully automated implementation of extract, transform and Reporting

Personal Details

* Marital Status : Married
* Location : Pittsburgh, PA
* Nationality : India
* Valid Visa : H1B