**Harshendu Desai**

**SUMMARY**

Extensive professional experience in business and data analysis, data modeling, metadata management, reverse engineering and various distributed relational databases provide a unique opportunity to bring in with technical expertise and the business knowledge that is needed by today’s Information Technology professional.

**COMPUTING SKILLS**

* **Requirement & Analysis** – Translate business requirement into functional design documents and into detailed technical specifications that include technical flow, ER and RDF diagrams, detailed report logic, measurements and layouts. Document database objects, and error handling while ensuring these technical designs meet the business/functional requirements specified in the Functional Design. Database performance and map and gap analysis using Excel, Power Point presentation and MS Word documentation.
* **Architecture** – Data Quality, Data Integration, Master Data Management (CDH,CDI, PMI), Business Data Quality (BDQ) and Business Data Object (BDO), Business Intelligence (BI), Reference Description Framework (RDF) , Zachman Architecture Framework
* **Modeling** -- Forward and reverse engineering (ERD) for traditional databases, data marts and data warehouses (Stars Schema) with data dictionary using CA ERWIN, IBM System Architecture and MS Visio tools.
* **Implementation** – OLTP and OLAP for traditional and analytical databases, data marts and data warehouses.
* **Design** – Database driven applications, specifically for Internet and custom client/server RDBMS solutions.
* **Integration** – Data Integration using PL/SQL, DTS, SSIS, SSRS, BODI, BODQ ETL and cleansing tools for SQL/DS and DB/2 mainframe, Sybase, Oracle and MS SQL Server databases.
* **Conversion / Porting** – Moving data from one database vendor platform to another (such as from Oracle to MS SQL Server vise versa) with applications using vendor / platform specific tools.
* **Servicing** – Writing and maintaining stored procedures (PL/SQL) on SQL/DS and DB/2 mainframe, Sybase, Oracle, MS SQL Server databases.
* **Connectivity** – Internet connectivity consulting for databases (including minor web administration and resolving performance issues) using ODBC, JDBC and ADO database connectivity.
* **Reporting** – BI metrics, ad hoc and analytical reporting and dashboard using Brio, Business Object and Tableau reporting tools.

**AREAS OF EXPERTISE SELECTED RELEVANT EXPERIENCE**

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| --- | --- |
| **Architectural Framework**   * As-is Business   Processes   * As-is Data Architect * To-be Data Architect * As-is Application Flow * As-is Data Flow * Systems Usage * Technology usage * End-State   Architecture   * Data Dictionaries | * Documented, Mentored & Developed conceptual and logical data models, BPMN and application models for Quote to Cash, Customer Advocacy and Enterprise Architecture team at CISCO using IBM System Architect (Telelogic) modeling tool. * Developed BOM model at HP, COSTS & QSAR Model at IBM and Reverse Engineered Mac& Indigo Data Warehouses at Apple using ERWIN modeling tool. * Documented and developed as-is QTC and CA applications and data flow diagrams at CISCO using System Architecture tool for Order and Customer subject area. * Developed and standardized data flow schema using Gene & Sarson data flow methodology and implemented at Delta Dental using MS Visio for Member, Provider and Claim subject areas. * Created Data Dictionary for Order, Customer and Shipment subject area for Cisco; Claim, Member and Provider subject area for Delta Dental; Automobile Repair Order and Appointment subject area for Xtime; Contract Manufacture and Supply Chain subject area for HP and Apple. |
| **Strategy and Tactical Data Process design**   * Strategic data analysis * Tactical ETL processes | * Designed strategic address standardization and enrichment processes to enable all dental insurance related subject areas for deliverable addresses which enable Delta Dental to contact all their customers via mail as a part of MDM project. * Designed a tactical ETL processes to port data from main frame to 3rd party dental application databases for Member and Provider subject area for Delta Dental. * Designed analytical BI metrics measurement processes to improve performance for Xtime service marketing and management reporting. |
| **Data Mining & Data Quality**   * Data Pattern * Map & Gap Analysis * Data Anomalies | * Design the Searching data pattern graphical representation tool to detect live IBM DB2 mainframe databases performance and presenting to IBM researchers. * Conduct RAMBO Universe As-is performance analysis and EDW data mapping for QTC at CISCO. * Analyze Bill of Material (BOM) structure and identified gap for HP and Apple. * Establish automated process to find anomalies of Claim, Member and Provider subject area for Delta Dental which helps to take data cleansing decision on data conversion processes. * Analyze Contract Manufacture supply chain data & process gap for Apple Mac and Indigo products data anomalies. |
| **Meta Data Architecture**   * Metadata Concept | * Design customer services metadata and presented to CISCO Enterprise Architecture Group. * Design Skill RDF metadata for CISCO services Group. * Modeled metadata and built user friendly interface for ROCHADE metadata repository tool for Delta Dental. |

**EXPERIENCE**

**2014 Wells Fargo Bank Corporation – Fremont, California**

# Sr. Data Integration Architect / Modeler (Contract) – 02/14- Present

* Designing and integrating various data sources for wholesale banking.
* Creating and Maintaining Logical and Physical Conforming data models.
* Map & Gap Analysis for Customer, Contract, Credit, Deposit, Resources Subject Area.

**2011-2013 CISCO Corporation – San Jose, California**

# Data Architect (Contract) – 10/11- 12/13

* Define Zachman Architecture Framework for End-to-End BI Services using IBM System Architecture Modeling tool.
* Define BOST Architecture Framework specifically on Systems and Technology subject area.
* Designing and Integrating Resource Description Framework (RDF) Data model using Oracle Spatial RDF database technology.
* Drawing RDF data model, Data Transformation / Data Flow diagrams using Visio tool.
* Creating and Maintaining RDF data models into Oracle Spatial RDF database.
* Migrating and Converting various sources of Relational data into RDF format and documenting use test cases.
* To-be Architecture, Data Dictionary and Map & Gap Analysis for Resource Skills, Service Supply Chain, Customer, Contract, Services and Technical Support Subject Area
* Responsible for writing Functional specs, Detail design and Support documents for SDCA Resource Profile project.

**2011 ROVI Corporation – Santa Clara, California**

# Data Warehouse Architect (Contract) – 06/11- 08/11

* Database Migration and Conversion from MS SQL Server 2005 to Oracle 11g.
* Map & Gap Analysis of MS SQL database Schemas and PL/SQL.
* Designing and Integrating Rovi’s to-be BI architecture using Oracle PL/SQL.
* Documenting use cases to test conversion processes.

**2011 HP Consulting at Blue Shield – San Francisco, California**

# Data Architect (Contract) – 01/11- 01/11

* Reverse Engineered Regional Strategy Model (RSM) extracts business rules from

SAS Datasets.

* Mentored Offshore / Onshore team& Recommended RSM Extracts to-be architecture for EDW.
* Map & Gap Analysis of RSM Extracts processes (ETL) for provider, member and claim subject

area.

* Coordinated business approval process for RSM transformation rules.

**2010 Apple Inc – Cupertino, California**

# Data Quality Architect (Contract) – 06/10- 10/10

* Data mining and as-is analysis of Apple Contract manufacturing Mac and Indigo subject area.
* Reverse Engineered Mac and Indigo data warehouse schemas and build inferred relationships for

as-is architecture using Erwin tool.

* Map & Gap Analysis of Business Processes and Data for MAC and Indigo Bill of Materials (BOM)

subject area.

* Responsible for standardization of data quality processes, data profiling and data governance

strategies for systems and applications.

* Created Data Dictionary for Mac and Indigo subject area.

**2010 Xtime Inc – Redwood city, California**

# Data Integration Architect (Contract) – 05/10- 07/10

* Data mining and as-is analysis of Xtime Automobile Dealership Management, Repair Order,

Appointment and Customer subject areas.

* Responsible for documenting as-Is ETL processes of Xtime BI Metrics and recommending to-be

ETL processes.

* Designing, Packaging and Integrating Xtime to-be BI architecture using Oracle PL/SQL.
* Responsible for demonstrating BI metrics performance improvement using Tableau BI reporting

tool.

* Created Data Dictionary for Repair Order (RO), appointment taker and agent subject area.

**2007-2010 Delta Dental Corporation – San Francisco, California**

# Enterprise Data Quality Architect / Data Modeler (Contract) – 07/07- 01/10

* Data mining and as-is analysis of Delta Dental member, provider and claim subject area.
* Reverse Engineering third party Oracle database schema and building inferred relationships for to-

be architecture.

* Responsible for drawing as-is and to-be Data Flow diagrams by applying Gene & Sarson

methodology and using MS Visio tool.

* Responsible for assessing mainframe data quality and reporting.
* Map & Gap Analysis of Business Processes and Data for provider and claim subject area using

SAP Business Object tool.

* Responsible for standardization of data quality processes, data profiling and data governance

strategies for MDM program.

* Developing data cleansing and ETL via SAP Business Objects Data Quality (BO/DQ) Software.
* Responsible for Modeling, developing and administering Delta metadata repository using ASG–

ROCHADE.

* End-to-End data cleansing Architecture for Language Assistance Program (LAP) member survey

data.

* Created Data Dictionary for Claim, Member and Provider subject area.
* Responsible for writing Business Requirement, Functional specs and Detail design documents for

Address standardization and conversion projects as a part of MDM program.

**2005-2007 CISCO Corporation – San Jose, California**

# Enterprise Data Architect / Data Modeler (Contract) – 01/05- 07/07

* Data mining and as-is analysis of Oracle 11i ERP Modules in CISCO environment.
* Reverse Engineered Order Entity, OE/OMT and IB ERP Modules for to-be architecture as a Single

Source of Truth (SSOT).

* Responsible for drawing Data Transformation / Data Flow diagrams using Visio as well as IBM

System Architecture (Tele logic) tools.

* Responsible for Business Intelligence, End State as-is and to-be architecture.
* Managed and published as-is and to-be Business Processes, Logical & Physical data models,

System Architecture, Interface and Infrastructure Architecture for Oracle Customer Data

Management and Oracle Trading Community Architecture ( TCA).

* Map & Gap Analysis of Business Processes and Data using SAP Business Object tools for Order

and Customer subject area.

* Generating Reporting and Metrics in SAP Business Objects (RAMBO).
* Created Data Dictionary for Order, Customer, Shipment and Service Contract Subject Areas.
* Responsible for writing Business Requirement, Functional specs and Detail design documents for

QTC and CA BI Metrics projects.

**2004 Charles Schwab Corporation – San Francisco, California**

# Senior Database / Schema Developer (Contract) – 03/04-12/04

* Re-designing and rectifying the Schwab Security and Fixed Income transactional databases.
* Documenting the current PL/SQL and standardize according to Schwab standards.
* Reverse engineering the physical database schema of MS SQL Server 2000.
* Analyzing business logic and mapping the Database schema with the requirement.

**1998-2003 Hewlett Packard Corporation – Cupertino, California**

**Sr. Business Analyst / Database Architect / Data Modeler (Contract)** **- 9/98-7/03**

* Modeling and Designing manufacturing and decision support data warehouse using ERWIN tool to

draw physical and logical relational diagrams including reverse engineering of databases.

* Defining the business process for product generation in decision support and manufacturing data

warehouse.

* Transforming / Replicating data for MS Sql Server, Oracle and Sybase production servers via DTS,

Jscript and VB script.

* Architect web interface reporting tool for extracting information from data warehouse.
* Training teammates on business analysis and relational databases.
* Responsible for writing Business Requirement, Functional specs and Detail design documents for

Manufacturing Bill of Material (BOM) and world wide support bill of material (WISBOM) projects.

**1998** **Intel Corporation – Santa Clara, California**

**Data Analyst / Systems Engineer (Contract) - 3/98- 9/98**

**1995-1998 Lockheed Martin -- San Jose, California**

**Staff Software Engineer - IS&T Division 8/95- 3/98**

**1984-1995 IBM Corporation -- San Jose / Santa Clara / Palo Alto, California**

**Project Lead/ Senior Programmer / Data & Systems Analyst 6/84-7/95**

**EDUCATION**

1986 M.S. in Statistics, California State University, Hayward

1979 M.S. in Business, Bombay University, India

1976 B.S. in Business, Bombay University, India

**Personal**

US Citizen

**References**

Available on request.