**Professional Objective**

Seeking a Database Modeler / Data Architect role

**General Experience / Background**

Sr. Oracle DBA providing support for production databases / development / test environments

Demonstrated pragmatic execution of technology projects with critical timelines

Ability to multi-task and meet strict deadlines and learn new concepts and technologies

Databases : Oracle. Knowledge of MySQL and MS SQL servers

Oracle tools : Designer, Grid, SQL Developer and other Third party database tools – Quest Spotlight, Development Tools – Toad and SQL Developer

Modeling Tools : Toad data modeler, CA Erwin r7

ETL Tools : Ab Initio

BI : OBIEE (Install / configure / deploy /

Scripting : Unix and Perl

Languages : PL/SQL (12years) and Java (1year)

Software methodologies : Agile, Waterfall and RAD

ERP applications : PRISM/CMS and STARS

Big Data : Hadoop core components – HDFS / MapReduce processing

Environments : LINUX, HP UNIX, SOLARIS and MS Windows

# PROFESSIONAL EXPERIENCE

## Oracle Corporation – Burlington, MA - 01/2011 – 2014

## Database Modeler / Architect

## (Supporting a SaaS-based Integrated Clinical Research Suite –

## For clinical trials from Phase 1 through regulatory submission and post-approval monitoring)

* Develop best practices for naming standard conventions and coding practices to ensure consistency of data models.
* Evaluate data models and physical databases of existing systems and legacy systems and presented at meetings - making recommendations for change to facilitate performance improvements in data access.
* Using Erwin - created logical & physical data models and ETL architecture in collaboration with Business Analyst for OLTP and Data Marts. Types of models created - dimensional modeling - star schema / OLTP – 3NF
* Performed data mappings of source and target systems and developed procedures for ETL process
* Validate business data objects for accuracy and completeness.
* Involved in all phases of the SDLC (Software Development Life Cycle) from analysis, design, development, testing, implementation and maintenance with timely delivery against aggressive deadlines.
* Performed database maintenance of business processes – such as code for maintaining security on database level.
* Provided support for and worked with development and infrastructure teams to ensure code releases meet Oracle security standards.
* Created materialized views for data replication in distributed environments.
* Partitioned large Tables using range partition technique.
* Performed analysis of requirements and follow the SDLC standards to implement the requested changes
* Developed Oracle SQL scripts and PLSQL functions, procedures and packages
* Created and maintained of Materialized View scripts to aggregate data
* Created Test plan and Test scripts, unit and integration testing, developing and maintaining the test results
* Performed maintenance/enhancement of ETL mappings, work-flows, processes for all work streams
* Gather and analyze business reporting requirements from end users and translate them into reporting designs.
* Provide BI data architecture and data model design, configuration, development, & deployment.
* Participate in all phases of the BI software development life cycle including business analysis and technical design of BI data models, multidimensional metadata layers, query objects create and monitor , and ETL processes; development of the reports and report templates, prototyping, testing and deployment.
* Troubleshoot BI related issues such as performance, data integrity, user access, security, and report delivery.
* Excellent communication, interpersonal, analytical skills and strong ability to perform as part of a team.

## Integrated Data Systems – Alexandria, VA (Contract)

###### Snr Application DBA/ Modeler - 11/2010-12/2010

* Design, develop, install and administer Oracle 10g
* Using Erwin design and support OLTP / Data warehousing environment
* Identified source systems, their connectivity, related tables and fields and ensure data suitability for mapping
* Engineering of legacy systems to derive physical models for further analysis and work
* Analyze business/functional requirements to derive logical models
* Analyze data-related and system integration opportunities and challenges and make recommendations
* Addressed issues involving data mapping / cleansing on source and target systems
* Perform re-design of legacy systems
* Worked with cross-functional teams and prepared detailed design documents for production phase of current customer database application
* Participate in review of models – performing presentations
* Plan and implement partitioning, replication, backup and recovery of the Oracle databases performance
* Perform capacity planning and implement database security – applying hardening rules and patching
* Monitor/perform ongoing tuning of the database instances and capacity planning
* Troubleshoot problems regarding the databases, applications and development tools
* Perform data analysis and mapping of source/target databases
* Perform data extraction and transformation of data
* Write scripts for data loads and updates

## Compusearch Software Inc. (Contract) – Sterling, VA

## Database Analyst (PRIZM) - 4/2010-10/2010

* Install, configure, monitor and tuned Oracle databases in VMWare – Linux / windows environments with a focus on resource sharing and its impact on performance. Also performed capacity planning /implement database security
* Run AWR / ADDM / ASH / Trace reports for analysis and perform tuning based on results
* Install / configure / maintain Microsoft IIS server and Component Object Model (COM) services applications and provide 3rd level support to customers – using ERP – PRIZM product

## Lockheed Martin – Wells Landers Consultant - McLean, VA

## Snr. Data Modeler / Developer / DBA - 8/2009 – 4/2010

* Identified source systems, their connectivity, related tables and fields and ensure data suitability for mapping
* Design and support OLTP / Data warehousing environment
* Analyze business/functional requirements to derive logical models
* Analyze data-related and system integration opportunities and challenges and make recommendations
* Create logical & physical data models using ERWIN on OLTP / Data marts.
* Used SQL Developer Data Modeling tools on other projects to perform modeling functions.
* Worked closely with development teams – generating designs for schemas and performed reverse engineering on legacy systems for review and generated and maintained new models for new applications. Also performed reverse engineering on as needed basis for model maintenance.
* Maintain ETL architecture in collaboration with DBA, Business Analyst, and developers to support the standardization of facts and dimensions.
* Develop data mappings specifications capturing business rules and logic & a common data dictionary for business
* Developed design of exception handling and data cleansing procedures and business transformation rules & logic
* Addressed issues involving data mapping / cleansing on source and target systems
* Perform re-design of legacy systems
* Implement change management and version control using ClearCase and ClearQuest
* Install, configure and tune Oracle databases and implement capacity planning.
* Perform capacity planning and implement database security – applying hardening rules, CPUs and PSUs
* Troubleshoot and resolve database related issues using Grid and Quest Spotlight in RAC environments
* Run AWR / ADDM / ASH / Trace reports for analysis and perform tuning based on results
* Implementing database security through Database Vault
* Partitioned large Tables using range partition technique.
* Worked extensively on Ref Cursor, External Tables and Collections..
* Performed ETL tasks involving techniques involving mapping, transforing and loading of data followed by data analysis and generating reports..

## IBM Corporation – Fairfax, VA

###### GBS IAS – Snr Applications Architect/Modeler (FEMA) - 7/2007 - 7/2009

* Design, develop, install and administer Oracle 10g
* Evaluate data models and physical databases for variances and discrepancies..
* Implemented Slowly Changing Dimensions - Type I & II in Dimension tables as per the requirements.
* Involved in all phases of the SDLC (Software Development Life Cycle) from analysis, design, development, testing, implementation and maintenance with timely delivery against aggressive deadlines.
* Translate business requirements into flexible and scalable data model that represent business goals and objectives
* Perform source data profiling to ensure data quality and conduct data quality audits to maintain data integrity
* Create logical & physical data models and ETL architecture in collaboration with DBA, Business Analyst, and ETL developers to support the standardization of facts and dimensions.
* Develop data mappings specifications capturing business rules and logic & a common data dictionary for business
* Developed design of exception handling and data cleansing procedures and business transformation rules & logic
* Evaluate query plans to improve performance
* Developed Complex database objects: Created Packages / standalone Procedures and Functions to assist in migration of legacy applications to Oracle hosted environment – for clinical drug research.
* Implement Triggers, SQL and PL/SQL, DB maintenance of business processes.
* Enhance ETL process through tuning, scheduling and exception-handling routines.
* Database Query Optimization and I/O tuning techniques have been used for performance enhancements.
* Developed graphs to extract Historical and Incremental Data.
* Responsible for extracting daily text files from ftp server and historical data from client sources, cleansing the data and applying transformation rules and loading to staging area.
* Performed analysis, Design, Development, Implementation, Deployment and maintenance of Business Intelligence applications - Business Objects XI.
* Participate in peer reviews

## General Dynamics

###### Information Technology – Lead Oracle Database Admin - Oakton, VA - 5/2006 - 7/2007

* Design, develop, install and administer Oracle databases 10g Identified source systems, their connectivity, related tables and fields and ensure data suitability for mapping
* Engineering of legacy systems to derive physical models for further analysis and work
* Addressed issues involving data mapping / cleansing on source and target systems
* Participate in review of models – performing presentations
* Plan and implement partitioning, replication backup and recovery of the Oracle database
* Monitor/perform ongoing tuning of the database instances, capacity planning and implement database security
* Troubleshoot problems regarding the databases, applications and development tools
* Installing, upgrading, and supporting Oracle Applications Server software for infrastructure/midtier
* Installing, upgrading and configuring Oracle Application Express
* Implementation of Oracle Text (10g)
* Implement database security – hardening rules (STIGs) and apply patches

## Northrop Grumman Corporation

###### Information Technology –Data Warehousing Engineer / Reston, Virginia 11/2005 - 5/2006

* Installed and configured Oracle / MySQL / MS SQL Server 2000
* Identified source systems, their connectivity, related tables and fields and ensure data suitably for mapping.
* Developed PL/SQL for data extraction, transformation and loading from source systems (disparate RDBMS) into
* Configured drivers for connection to external sources
* Worked with cross-functional teams and prepared detailed design documents for production phase of current customer database application.
* Analyze business/functional requirements to derive logical models
* Participate in review of models – performing presentations.
* Once validated – deriving physical models from the Logical and implementing in relational database.
* Engineering of legacy systems to derive physical models for further analysis and work
* Analyze data-related and system integration opportunities and challenges and make recommendations
* Perform re-design of legacy systems
* Building complex entity relationship models - synchronizing models and generating complex SQL/DDL
* Implement change management and version control using ClearCase and ClearQuest
* Install/configure/support Oracle/MS SQL Server databases
* Perform data analysis and mapping of source/target databases

## Oberon Associates Inc.

###### Information Technology – Principal DBA / Falls Church, Virginia 2/2004 - 11/2005

* Experience with installation / configuration / patch application and support of Oracle Application Server infrastructure and middle tier architectures of 9iAS/10gAS
* Using Workflow Builder - design and create a Workflow and start the process from pl/sql and tuned the environment
* Create roles for notifications in Oracle Workflow
* Create and maintain database Architecture including Entity Relationship Diagramming and Dimensional Modeling
* Solid understanding of business rules and processes
* Review design and code frequently to ensure the site standards are being adhered to
* Plan and implement partitioning, replication backup and recovery of the Oracle database
* Implemented/managed – data extraction, integration and loading
* Perform database re-organization as required to improve performance and ensure maximum uptime of the database
* Put standards in place to ensure that all application design and code is produced with proper integrity/security
* Maintain all databases required for development, testing and production usage on Solaris 7/8, Windows server platforms for development, test and production environments
* Monitor/perform ongoing tuning of the database instances, capacity planning and implement database security

## Northrop Grumman Corporation

###### Information Technology - Database Technologist III / Reston, Virginia - 8/2000 - 2/2004

(Database Developer/Modeler/DBA – for FHIE – patient information exchange software)

* Install and administer Oracle databases (7, 8i and 9i)
* Create and maintain data Architecture including Entity Relationship Diagramming and Dimensional Modeling
* Install and configure Ab Initio GDE and Co-op – ETL
* Led in business requirement definition activities and translate them into logical and physical database designs
* Analyzed/defined source system(s), defining data elements and the rules for mapping
* Created normalized relational data models in Erwin / Oracle Designer / Visio
* Using XML / XSLT to extract data.
* Ensuring database system security by implementing variety of custom database roles and profiles
* Developing test-staging scripts to prepare database for application testing
* Create maintained data models/scripts under version control using Rational ClearCase
* Create and maintain change request in Rational ClearQuest
* Working with Java application (wrote servlets) /Web developers to perform system design/development/enhancement activities
* Generating data dictionary – a fully documented ER model of system for customer using Erwin
* Backup and Recovery with RMAN
* and implemented Windows NT / Novell NetWare security

## MCI WorldCom

###### Systems Engineer (LAN Admin/Oracle DBA) / Washington DC - 7/1997 - 8/2000

* Installed and configured file servers (e.g. NT 4.0/NetWare/Solaris 8), desktops and Laptops
* Performed LAN Administrator duties for users in DC
* Performed DBA duties for 1 year diagnosed/resolved connectivity problems and perform backups and restores
* Installed and configured Oracle 8.0 on NT4 platform
* Created physical database from logical design – and performed reverse engineering from

## Electronic Data System

###### Telecommunications Engineer / Washington DC - 7/1996 - 7/1997

* Performed site survey and established user and system requirements for LAN upgrade
* Documented site survey findings, proposed LAN architecture/costs for customer review - using Visio
* Installed and configured NetWare file servers and provided 2nd and 3rd level network support
* Implemented NT/NetWare security and created/maintained user environments

# Education

## Nextec Inc. - Object Oriented Programming – Java programming Herndon, VA

## George Washington University - Washington DC

Master of Science in Information Systems Technology

Course work: Information systems engineering principles (i.e. analysis, design and implementation)

Concentration: Database Administration/ development, data warehousing, data mining and telecommunications

**Java Programming and SAS programming**

John Jay College, City University of New York - BA/MA in Criminal Justice **New York, NY**

## Montgomery College, MD/ United Technology Institute Gaithersburg, MD

Certificate in Programming

Course work: Database Development/Administration. Application development using Visual Basic

## Spectrum IT Springfield, VA

Diploma in Data Warehousing (2002)

Course work: Ab Initio - install and config ure Co OP/GDE and perform extraction, transformation and loading of data from source systems into target system.

Architecture Strategy - Enterprise Integration Fundamentals, Data Warehousing & Data Mart Fundamentals, Dimensional Modeling, Metadata Management, Designing and Managing the ETL Process

Business Objects - Designing dashboards using Business Object

Entity Relationship Diag. - Microsoft Visio

## Computer Learning Center Alexandria, VA

Diploma in Network Engineering Management (1996)

Course Work: Telecommunications (LAN/WAN installs and administration) in Windows NT/Novell networks