Bhuvaneshwar Kumar (BK) Sinha, PMP

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ENTERPRISE DATA ARCHITECT/Tech Lead

## OBJECTIVE

Fully utilize and enhance my background in Data Migration, Enterprise Data Warehouse (EDW), Database Administration, Business Intelligence Data/ETL Architecting, Enterprise Application Architecting, Project Management and Information Technology to help organizations get the most out of their technology investments. Leverage my overall business experience to help companies to design and execute business strategies and solutions.

## PROFESSIONAL PROFILE

As an Enterprise Data Architect (EDA) with over twenty (26+) years of cross-functional execution experience in strategic and tactical planning; I have provided leadership around the technologies and approaches to enterprise data, including master data management, data governance, data quality management, data strategy, cost-optimization, innovation, and efficiency. I have led the development and execution of a strategic roadmap associated with the enterprise data landscape and data environments keeping balance short-term versus long-term actions and strategic versus tactical requirements. I have directed global technology implementations, Business Intelligence Solution, Enterprise Data warehouse & Analytics solution, Development of complex applications and data migration & integrations projects for various companies including Anthem Blue Cross Blue Shield (Insurance Sector), American Express (AMEX-Banking Sector), Toyota Motor Sales (car and motor parts sales), Mayo clinic (Hospital claim and payment management, chart of accounts) and many public sectors and government organizations involving intricacies of finance management. I have played various roles as Dy. Manager, Enterprise Data/Solution/Application Architect, Business Intelligence Architect, DBA, Quality Assurance Lead, Technical Lead, Business Analyst, System Analyst, Project Manager, Operation Manager, Testing Manager and Application Development Manager in the career span of 26 years.

SUMMARY of Experience:

* Over 26 years of professional experience in client/server environment, Advanced IT Application Integration, Software Architecture design, development methodologies, Systems/Software Development Life Cycle (SDLC), DevOps engineering, Testing (Functional, Performance, Integration, Regression, UAT, Batch, ETL), implementation and management of projects.
* Highly Experienced in complex Data/Application migration plan and designing cut-over strategies and policies
* More than 7 years of experience in Software support, operation and development for **Healthcare industries** with clients including California Department of Healthcare Services(DHCS-CAMMIS) and DHS of LA County, Mayo Clinic, Anthem Blue Cross Blue Shield
* Deep understanding of Enterprise Architecture principles, standards, and enterprise strategy development and well-versed in The Open Group Architectural Framework (**TOGAF**), EABOK, EACOE, the **Zachman** Framework, The Federal Enterprise Architecture, and **Gartner methodology**
* Expert in design and creation of a Decision Support Systems (DSS), Data Analysis & Modeling, Budget Forecasting Application, Development of Data Model (including Conceptual Model, Logical Model, Physical Data Model, Canonical Models, Messaging Models and Process Data Models), Data governance Policies, Data Audit policies, Data quality Policies and Data Retention Policies, Meta-Data Repository definition, Business Intelligence Modeling & Data Warehouse Architecture Design ( Bill Inmon (Top Down) & Kimball( Bottom-up), Hybrid and Federated approach) & Solutions
* Expert in building and articulating a data architecture and delivery roadmap indicating current, transition, and future state architectures, focused around clear benefits to both IT and business users
* Proven experience in developing architecture reference models for data governance, controls, and peer reviews in regards to data, security, and cloud computing using publicly available services
* Sound understanding of application, server, and network security and compliance requirements such as HIPAA
* Excellent experience of leading or developing high quality, enterprise scale software products using a structured system development lifecycle
* More than 18 years of experience with Data Warehouse and Business Intelligence systems; extensive experience for collecting business requirements from customers, and transforming the requirements into data processes and data schemas.
* Excellent knowledge of understanding of a wide variety of analytical processes (governance, measurement, information security, etc.)
* Extensive experience providing technical direction on information and analytics platforms in conjunction with EDW tools and technologies.
* Expert in project management, Information Technology Infrastructure Library (**ITIL**), **Agile** methodologies and waterfall modeling techniques
* Sound knowledge of State of California departments, operations, and administrative processes including knowledge and prior experience with State Administrative Manual (SAM), Statewide Information Management Manual (SIMM), The Medicaid Information Technology Architecture (**MITA**) as they pertain to state IT projects.
* Expert in Microsoft SQL SERVER 2005/2008R2/2012/14/16, ORACLE 10g/11g/12c, IBM DB2 (Mainframe and UDB), OBIEE, MySQL database administration (Installing, administering, clustering, performance tuning, partitioning, implementing and troubleshooting), design, security & audit and logical & physical modeling
* Vast experience on Extraction, Transformation and Load (ETL) strategy, architecture & design, staging and implementation including ETL across different platforms for VLDB databases and flat files with tools like, SQL Server Integration Services(SSIS), Oracle Data Integrator (ODI), Informatica Power center, Power Exchange, PL-SQL, T-SQL, DTS package, Business Object Data Integrator, Pentaho Integration Services, IBM DataStage
* Experience on Meta data definition, implementation and maintenance, new business rules identification and implementation to data rules and maintaining data quality, data profiling
* Experienced in performing data classification, and identifying storage platforms and hardware based on data requirements.
* Experienced in Customer Data Analysis, Predictive Analysis, Product and Price Analysis
* Expert in SQL, PL/SQL, SQL-Plus, Microsoft T-SQL knowledge, creating and optimizing all database objects like stored procedures, tables, views, triggers, indexes, user-defined functions
* Specialized in Business Intelligence Technologies & Data Visualization tools like, OBIEE (11g, 12c), Oracle Hyperion BI Suites including (Enterprise/Essbase Analytics, BI Interactive Reporting Tools, Web Analysis, and Hyperion Planning etc.), MS OLAP (SSAS), SSRS, SAP Business Object XI/3.0/4.x, Tableau, Pentaho Business Analytics & Reporting Services, IBM Business Intelligence (Cognos)
* Strong experience in Database design and multi-dimensionalmodeling (star schema and snowflake schema, normalized and de-normalized models; handling “slow-changing” dimensions/attributes: Kimball methods), data cleansing, scrubbing and integration with tools like CA Erwin, Infosphere Data Architect (IDA), Sybase Power Designer, Oracle SQL Developer Data Modeler, Sparx Enterprise Architect, Embarcadero ERStudio, Microsoft Visio etc.
* Hands-on experience with Microsoft Active Directory Service, ADSI API, LDAP, Novel eDirectory etc., Networking
* Sound knowledge of Computer Security fundamentals, Security Policies and Processes, Identity Management, Audit & Control (including implementation of Imperva & Oracle Vault Audit), Cryptography, encryption methodologies, compliance, access control, and governance requirements, including encryption algorithms and standards, AES/GCM, HSMs, key management, IAM, MFA, SSL/TLS, NIST & SOX
* Experienced in Oracle Enterprise Service Bus, Oracle B2B, SOA, Oracle Application Integration Architecture (AIA) methodologies, Clustering, files and WebServices
* Excellent Language skills to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations, to write reports, business correspondence, and technical specifications and to effectively present information and respond to questions from groups of managers, internal team members, and vendors
* Excellent Mathematical skills to apply advanced mathematical concepts such as exponents, logarithms, quadratic equations, and permutations & combinations and to apply mathematical operations to such tasks as frequency distribution, determination of test reliability and validity, analysis of variance, correlation techniques, sampling theory, and factor analysis.
* Very strong Reasoning ability to define problems, collect data, establish facts, and draw valid conclusions, to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.
* Extremely strong in analytical and problem-solving skills and to work effectively across internal & extremal functional areas.
* Excellent communication (verbal, written, and visual presentation skills), interpersonal, and **leadership skills** with the ability to develop cohesive working relationships with internal and external clients
* Hand-on-Experience in **Project Management Methodology** using Microsoft Project, Word, PowerPoint and Excel with ability to manage multiple deliverables in a highly energized and fast-paced environment within a framework of constantly shifting deadlines and deliverables
* Experience of managing off-shore team, a team of 40 software engineers and more than 200 staffs
* Strong Functional Experience in Media streaming, Govt. Sector, Healthcare Industry, Banking, **Finance,** Budgeting, Sales, Asset management, Content Management, inventory control management in Manufacturing industries

TECHNICAL SKILLS:

**Hardware:** IBM/HP/DELL PCs, Power Servers, Virtual Servers and compatibles, Oracle Data Appliances (ODA)

**Operating Systems:** UNIX, Red Hat Linux 5.2/7.2, Centos, IBM-AIX, Sun Solaris, Oracle Linux, Oracle Solaris, OS X, Z/OS, MS-DOS, Windows XP/7/8.1/10, Windows Server 2000/2003/2008R2/2012R2/2016, WinNT

**Programming Languages:** VISUAL BASIC 6.0/VB.NET, VBA, Visual C#, Java, JSP, NodeJS, Spring, EJB, C & C++, Visual C++, MFC, ATL, HTML, XML, XSL, CSS, ASP, ASP.NET, .NET Framework, Python, PHP, R, Perl

**Scripting Languages:** PowerShell, JavaScript, VBScript, Perl Script, Bash Shell, Zsh, C-Shell, OS X script, other Unix Shell Script, JASON (Java Script object notation)

**Relational Databases:** Oracle 8/8i/9i/10gR2/11gR2/12C, SQL Server 2005/2008R2/12/14/16, DB2 UDB & Mainframe, Sybase 11/12, Informix, MySQL, MS-ACCESS 2007/2010/2013/2016, PostgreSQL 9.x

**MPP Databases:** Teradata, Netezza, Amazon Redshift, Oracle Exadata, HPE Vertica, Microsoft PDW (Parallel Data Warehouse)

**OLAP Databases:** Microsoft OLAP Services, Oracle Hyperion Essbase Analytic Server, DB2 OLAP Server, Cognos Power Play, IBM Cognos TM1, Oracle Database OLAP Option, MicroStrategy Intelligence Server

**NO SQL Databases:** MongoDB, Hbase, DynamoDB, Azure DocumentDB, Couchbase, Cassandra, CouchDB, Vertica

**Big Data and Tools:** Hadoop, Map Reduce, Spark, Scala, Hive, Presto, Oozie (workflow scheduler), Flume (Distributed Log collection), Cloudera

**Cloud Platform:** Microsoft Azure Cloud Services, Microsoft Azure BI Stack, Amazon Web Services (AWS), Amazon Simple Storage Services (S3), Amazon Elastic Compute Cloud (EC2), Amazon ElastiCache, Google Cloud, Google BigQuery, Google Compute Engine, Google App Engine, IBM CAL Cloud

**ETL/ELT Tools:** Oracle Data Integrator (ODI 11g/12c) & Warehouse Builder (OWB), Informatica Powercenter &Power Exchange 5.x/7.x/8.x/9.x/10.x**,** SQL Server Integration Services (SSIS), SAP Business Object Data Integrator (SAP BODS), Hyperion Essbase Integration Services, IBM DataStage, Pentaho Data Integration Services, Talend Data Integration,

**BI Reporting Tools:** OBIEE 11g/12c**,** Hyperion BI Suites including (Enterprise Analytics, BI Interactive Reports, Web Analysis, Analyzer, SmartView, Financial & SQR Reports, and Hyperion Planning etc.), IBM Business Intelligence (Cognos), SAP Crystal Reports/Analysis 10/11/12/2013, Pivot Table, Hyperion Performance Suite (Brio), Business Object XI/3.x/4.x, Microstrategy BI Reporting Services, Tableau (9.x/10.x) Data Visualization, Microsoft SQL Server Reporting Services (SSRS), Microsoft Power BI Desktop, Microsoft Power BI Gateway, Power BI with Microsoft Excel, Pentaho Business Analytics and Reporting Services

**Data Tools:** Informatica (MDM, IDQ, IDD and Metadata Management services 9.x/10.x), IBM Infoshere MDM Service, Microsoft MDM and Data Quality Services, Data Profiler, SQL Developer, TOAD (for Oracle database, IBM DB2, MS SQL Server and MySQL), PL-SQL, Transact-SQL (T-SQL), SQL Plus, Rapid SQL, DB2 Control Center, DB2 Connect,Tivoli Monitoring and Backup Services, RMAN, Data Guard

#### Modeling Tools: Erwin, Embarcadero ERStudio, Sparx Enterprise Architect, Visio 20072013/2016, Sybase Power Designer 9/10/11/15/16, IBM Rational Data Architect (IBM Rational Rose), RUP, UML, InfoSphere DATA Architect, Open System Architect, Toad Data Modeler, Archmate Modeling, Open ModelSphere, Oracle SQL Developer Data Modeler, Informatica ActiveVOS (BPM), SQL Power Architect, Oracle BPM Suite 12c

**App Dev Tools:** Microsoft Visual Studio, Eclipse, Oracle JDeveloper, IBM Rational Application Developer (RAD), TIBCO Business Studio, Informatica Designer, Visual InterDev, ODI Designer

**DevOps Tools:** Bamboo, Oracle Primavera, Ansible, Docker, Gradle, Jenkins, Maven, Mesos, Microsoft Visual Studio Team Server, JIRA

**Web Servers:** Microsoft Internet Information Server (IIS), Apache Web Server, Tomcat Web Server, IBM WebSphere Server 6.1/7.0/7.5, Oracle Web-Logic Application Server, JBoss Application Server

**Business Applications:** PeopleSoft CRM and Tools, Lawson CRM Suites, Oracle E-Business Suite (EBS), SalesForce, Guidewire Insurance Suite, PolicyCenter & ClaimCenter, Cerner EHR Suites, Affinity EHR, Oracle ERP & CRM, Siebel Customer Relationship Management (CRM) Applications, Microsoft Office (Project, Word, Visio, PowerPoint and Excel) 2007/2013/16, Market Vision, Apache OpenOffice

**Version Control Tools:** Git, Microsoft Team Foundation Services, Subversion (SVN) 1.7, ClearCase, CVS, Visual SourceSafe 6.0 (discontinued), AccuRev

**Messaging Tools:** IBM MQ Server & Client, Microsoft Exchange Server, and Microsoft Outlook 2013/2016, Lotus Notes 8.0/9.2, Sametime, Microsoft Lync

**Testing Tools:** HP (Mercury) Load Runner, Rational Robot, Jasmine, Rational ClearQuest, IssueTrak, TestTrack, Impact Issue Tracking Suite

**Other Tools:** Oracle SOA, Tivoli Identity Manager (TIM), Tivoli Access Manager, , LDAP, Active Directory, Sun One LDAP, Imperva Security Audit, VMWare, OpenBox, MTS, ActiveX, SOAP UI, OOD, ADO, DAO, RDO, COM/DCOM, CDO, Web class, ODBC, JDBC, JDK, Samba, Extra Office Client (Attachmate) 6.4, TCP/IP, HTTP, FTP, SMTP, NFS, FrontPage, Adobe Fireworks, Adobe Photoshop, Webex, Skype, TeamViewer, Adobe Acrobat and its APIs

EDUCATION:

* B. Tech. Electrical Engineering (Experience with Applied Mathematics, Business Analytics and Computer Science) Indian Institute of Technology (IIT) Varanasi, India in June 1990

##### TRAINING:

* Project Management concepts and Methodology , PMI
* Unix System Administration, San Jose City College, CA
* Data Warehouse Architect from The Data Warehouse Institute
* SQL Server 2000 Administration, San Jose City College, CA
* Oracle 8i/9i Database Administration, San Jose Evergreen Valley College, CA
* Windows 2000 Active Directory Services and Exchange 2000 Server, Sierra College, CA

##### CERTIFICATIONS:

* **Certified Project Management Professional (PMP)**
* **Data Warehouse Architect from TDWI**
* Microsoft Certified SQL SERVER DBA
* Microsoft Exam 70-229: Designing and Implementing Databases with Microsoft® SQL Server™ 2000 Enterprise Edition
* Microsoft Exam: 70-228 Installing, Configuring and Administering Microsoft® SQL Server™ 2000 Enterprise Edition
* Microsoft Exam: 70-215 Installing, Configuring & Administering of MS Windows 2000 Server
* Microsoft Exam: 70-216 Implement & Administer a WIN2K Network Infrastructure
* Microsoft Certified Solution Developer with .NET

PROFESSIONAL EXPERIENCE:

**CalACES ( iFish/First Data). Sacramento, California Jan 2018 – Till Date**

**Datacenter Consolidation for (C-IV, LRS and CalWIN)**

**Enterprise Architect Lead**

Responsible for developing datacenter consolidation, databases, mobile and regular applications and portals migration strategies, project planning, roadmap and cost benefit analysis by providing alternative cloud (AWS, Oracle, Azure, Google) hosting solution options.

**Honeywell Inc. Atlanta Georgia April 2017 – Dec 2017**

**Reporting & Analytics Project**

**Enterprise Database Architect Lead**

Responsibilities:

Responsible for

* Managing the strategy and implementation for the Connected Technologies Data and Analytics
* Solution Architecture and Design, Building the Business Process Management (BPM)Business Case and Vision, Project Management, Knowledge of Organizational Structure and Culture, Business Process Discovery, Business Process Modeling, Analysis and Design, Business Process Governance and Process Policy Management, Process Performance Management, Agile and Model-Driven Application Development, Business Process Optimization and Simulation, Risk Management
* Development of Business Intelligence Analytics (OLAP) and Enterprise Data Warehouse
* Design of ETL Architecture and Implementation of Informatica Enterprise Architecture
* Development of Logical & Physical Data Model
* Enterprise Application Integration
* Database Security and Integrity
* Database backup, Disaster and recovery planning
* Development of standards and policies
* Applied Enterprise Architecture (EA) principles and practices for solutions

Environment: Redhat 7.2, Windows 2012, UML, Microsoft Project/Visio 2016, SQL Server 2012/2014/ 2016, Informatica 10.x Power center, Microsoft SQL Server Integration Services (SSIS), Microsoft BizTalk server, Microsoft OLAP Server, Tableau 10.0, Power BI, Microsoft Dynamics 365, JIRA, Splunk, .NET, Azure DocumentDB, PaaS, Hadoop, Casandra, Azure Virtual Machines, Blob Storage, Azure SQL Database, Azure DNS, Virtual Network, Azure App Service, LDAP, Active Directory

**State of California, Dept. of Child Support Services, CA July 2016 – March 2017**

**CSE BI Project**

**Enterprise Business Intelligence Architect**

**Responsibilities:**

* Collaborated with data processing manager, supervisors, directors and enterprise architects to develop and execute enterprise data strategy, including the architecture and development of master and reference data management capabilities
* Defined and implemented the strategy roadmap for enterprise data implementation and data management for current data sources (CSE), business-to-business partnerships, and data analytics systems.
* Worked with staff and customers to understand the business requirements and business processes, design enterprise data warehouse schema, and define extract-translate-load (ETL) and/or extract-load-translate (ELT) processes for DW.
* Performed data discovery to bring significant value data understanding.
* Acted as a liaison with other functional and application leaders to ensure they were fully informed of objectives, purposes, and achievements of enterprise data architecture.
* Functioned as a technological evangelist, discovering, facilitating discussion, and introducing new ideas, technologies, data usage, etc. to the business, resulting in new product ideas and influencing software development activities.
* Established standards and guidelines for the design & development, tuning, deployment and maintenance of information, advanced data analytics, and logical and physical data models.
* Documented end-to-end data flow and prepared conceptual and logical model for BI application.
* Applied Enterprise Architecture (EA) principles and practices for solutions
* Developed strategies, best practices and roadmap for Implementation of

1. Data Governance at Enterprise Level
2. Enterprise Database Management system
3. Data Quality Management and Data Profiling
4. Master Data Management (MDM)
5. Metadata Management
6. Business Intelligence Analytics and Enterprise Data Warehouse
7. Maturity Model for Data Governance, Data Quality Management, Enterprise Data Management(EDM), Business Intelligence and Master Data Management
8. Design patterns and best practices for data and the integration of data through the enterprise
9. Reference architecture, and roadmap for Business Intelligence and MDM
10. Design of ETL Architecture and Implementation of Informatica Enterprise Architecture

Environment: AIX 6.1, Redhat 7.2, Windows 2012, Sybase Power Designer 16, UML, Microsoft Project/Visio 2016, DB2 UDB 9.7, Oracle 11gR2/12C, SQL Server 2012/2016, Informatica 9.6.1/10.x Power center, Power Exchange, Informatica Data Quality(IDQ), MDM, WebSphere 7.0, TOAD, Microsoft SQL Server Integration Services (SSIS). Hyperion Interactive Reporting Services, CalCloud, Azure, BLOB, LDAP, Active Directory

**Los Angeles County Dept. of Health Services, LA, CA Aug 2015 – June 2016**

**CEDAR Project**

**Enterprise Data Warehouse Architect**

In CEDAR (Comprehensive Enterprise Data Analytics Repository) project Encounter, Demographics, Procedure, Diagnosis, Eligibility, Treatment Authorization, Claims and Claim payments data from various source systems are designed to be brought in to a data ware house product of Oracle Corporation called “Enterprise Healthcare Analytics” (Also known as HDWF: Healthcare Data Ware house framework). Six years of historical data are already loaded into the system. The current data that are coming into the system are designed to be loaded as Incremental data. Data from different source systems have varied frequencies

Responsibilities:

* Responsible for providing program and project management for IT operations, systems and network engineering, data center operations, software selection, software design and development, technical, or functional management support on CEDAR projects
* Led as a member of a development team to provide business data requirements analysis producing conceptual, logical and physical data models, using a Erwin tool to fully document and maintain models and ensuring integration into existing data architectures
* Performed source system analysis, identification of key data issues, data profiling and development of normalized and star-snowflake physical schemas
* Played various roles on Projects that required Data warehouse Consulting which include Data Warehouse Enterprise Data & ETL Architect, Project/Program & Technical Lead
* Led design reviews with Client and participate in Data Warehouse & ETL and reporting requirements meetings
* Managing database monitoring tools, examining performance metrics and functionality of databases, and tuning the database to ensure optimal business user experience.
* Development of database strategies to maintain highest database quality and continuously meet necessary functionality for the business
* Designing and creating database structure (logical design) partnering with development teams for business partner data and requirements analysis
* Utilizing the logical design to develop the physical database design, and creation of the highest performing, optimized database
* Collaboration with developers post-implementation for quality control assurance; and to ensure developer understanding of data and access methods
* Directing and executing physical database changes required by applications.
* Maintaining database schema’s and data descriptions in Data Dictionary
* Establishing, creating, and maintaining business continuity, and disaster recovery policies, procedures, and plans; creating and facilitating test case scenario of all backup/recovery planning
* Partnering with users to determine, and develop data models for user reporting needs, and ad-hoc reporting based on queries; eradicating existing user data misuse or user data conflicts
* Responsible for DBMS and other database related tools including end to end planning, management and execution of upgrades.
* Planning and coordinating database security measures in order to maintain data integrity
* Set the strategic direction for data use policy and defined the data governance model.

Environment: AIX 7.1, Redhat 6, Windows 2008/2012, Erwin, InfoSphere Data Architect (IDA) MDM, Erwin 9.6, UML, Informatica Data Quality(IDQ ), Microsoft Project/Visio 2013, Oracle 11gR2/12C, SQL Server 2008/2012/2014, Oracle Data Integrator (ODI) 11GR2, OLTP, OLAP, RAD, SVN, Rational Enterprise Architect, TOAD, SSL3.0, Vault system for 11GR2, HIPPA, HDWF, PL-SQL, ETL, SQL Developer, MySQL, Oracle SOA, B2B engine, Agile Development Methodology, Java/J2EE ,Python, SQL, Data Warehouse, Enterprise Data Architectural Modeling, MITA 3.0, SIMM, Hadoop, Oracle CRM, HIPAA X12, , LDAP, Active Directory

**California State Dept. of Health Services, Sacramento, CA Oct 2010 – May 2015**

**CA-MMIS Project (IBM/ACS)**

**Enterprise Data Architect**

California Medicaid Management Information System (CA-MMIS) represents one of the largest and most complex system transitions in California history. CA-MMIS processes payments to physicians, pharmacies, hospitals and other providers in the Medi-Cal fee-for-service program. There were two phases of this project. The First phase was the migration project from HP data center to IBM data center. All the applications were migrated from HP’s environment to IBM environment. Second phase is assumption of operation, enhancement, CRM and Security Audit system Implementation.

Roles and Responsibilities:

Responsible for providing program and project management for IT operations, systems and network engineering, data center operations, Migration, software selection, software design and development for CA-MMIS project as detailed:

Developed and designed software implementation strategies for CA-MMIS (California Medicaid Management information systems) involving web portals, healthcare data management, reporting aggregation, management dashboard, collaborative environments, and content management systems

Phase -I

* Defined and designed strategies to provide enterprise-wide information capabilities for CA-MMIS
* Aligned and designed the plans to meet enterprise-information requirements and provides enterprise data flow diagrams.
* Assisted in evaluation of technologies for new data capabilities and application software for the enterprise.
* Aligned information architecture with enterprise architecture by selecting appropriate tools and techniques to capture this information.
* Documented roadmaps transition strategy from current to new architecture, including integration from current data and information systems
* Developed migration plan and cut-over strategies and policies
* Migration: Migration of Application, Security System and databases across the Operating Systems like AIX, Solaris, Linux, Windows.
* Migration of Database server, application server, ETL (Informatica) server, reporting servers etc.
* Directed solutions requiring integration of multiple platforms, operating systems, applications, and databases across the enterprise to reduce costs and improve information flows
* Installation, Upgradation and Configuration of 10g/11g Database Server Administration tools like OEM and EM controls
* Designed and implemented high availability solution for our client running in Oracle10*g/11GR2* using Oracle Real Application Clusters (RAC) and RMAN.
* Oracle Database Installation, Design, creation and configuration, allocation and maintenance of rollback segments, tablespaces, data files, redo log files, mirroring of redo log files and control files across multiple disks and multiple instance maintenance.
* Facilitated discussions between groups of IT and business partners at different levels; recognize issues of conflict and inconsistency between data requirements and pursue a resolution of these issues
* Developed a consolidated enterprise information architecture for shared data with client and business partners
* Installed and configured Business Objects 6.5/XI/XIR2/XIR3.1, CMC with Infoview, Deski, Webi
* Migrated all Business Objects reports and configured BO clusters.
* Performed system integration tasks for various applications and servers
* Managed and coordinated hardware remediation for failed components  for database and application servers
* Set up multi-site DR clusters performed Data backup / replication using SAN Replication

Phase-II

* Developed high-level database architectures and ensured that database designs are consistent with Enterprise architecture and information management standards as well as industry standards.
* Led as a member of a development team to provide business data requirements analysis producing conceptual, logical and physical data models, using a Erwin tool to fully document and maintain models and ensuring integration into existing data architectures
* Developed Hierarchical modeling and dimensional modeling constructs; and maintained the Data Warehouse Bus Matrix Architecture;
* Responsible for coordination among enterprise data governance, data custodian, data stewards, data analyst, data and system architects
* Developed and Maintained Data Mapping documents, Bus Matrix and other Data Design artifacts that define technical data specifications and transformation rules
* Design and govern data services messaging constructs in XSD format.
* Performed source system analysis, identification of key data issues, data profiling and development of normalized and star-snowflake physical schemas
* Performed data quality audits on CAMMIS data for inconsistent data, incomplete data, business rule violations, incorrect data, etc.
* Performed Customer Data Analysis, Predictive Analysis, Product and Price Analysis.
* Provided in-depth technical consultation to clients and IT management to ensure development of efficient data models, ETL model, data policy, data governance
* Responsible for development of plans and strategies for data management processes, Data warehousing, Decision Support Systems (DSS), Business Intelligence & Analytics using OBIEE, Business Object Reporting tools and programs and provided direction and consultancy.
* Installed and configured Imperva Security Audit system for all databases (29) and applications
* Installation and configuration of Imperva Agent on all database servers
* Installation and configuration SSL certificate on database server and Imperva servers
* Led various large-scale or highly complex database auditing, logging and management activities including:
  + Designing highly complex logging and monitoring processes for databases
  + Developing Security audit log policy and implantation of Imperva audit system
  + Developing management policies, procedures and standards
  + Business requirements identification, analysis and development.
  + Providing mentoring, guidance and general oversight to less experienced staff in a variety of database logging and monitoring
  + Administration of DB auditing activities.
* Developed a consolidated enterprise information architecture for shared data with client and business partners
* Developed and implemented IT and System Architecture for CRM and OBIEE application
* Planning implementation of Disaster recovery plan through real-time SAN replication
* Day to day support to operation and maintenance of the system
* Upgrade of Business Objects clusters.
* Managed data security for reporting and analysis data structures
* Established processes and recommend tools to ensure data quality
* Measure key performance indicators to assist with operational and strategic planning
* Provided training and assistance to users with data analysis and reporting functions
* Managed data dictionaries and data definitions
* Maintained catalogs of data sources and data mappings
* Maintained catalogs of reports and analysis tools
* Work with Microsoft SQL Server/DB2 and Oracle database technologies
* Work with application data, including Rebate accounting systems and other financial systems
* Troubleshoot and optimize relational and OLAP databases
* Installed and configured IBM Cognos BI Reporting tool

Environment: AIX 6.1, Solaris 8/9/10, Redhat 5.5, Windows 2003, InfoSphere Data Architect (RDA), Erwin 7.3, RUP, UML, Microsoft Project/Visio 2007, DB2 (Mainframe), DB2 UDB 9.5, Oracle 8i/9i/10gR2/11gR2,SQL Server 2000/2005/2008/2012, OBI, Informatica Power Center 8.5.1/7.1.1 & Informatica Data Quality(IDQ) , Autosys 4.0/5.0 RAD, SVN, Rational Enterprise Architect, , Window 2003 (ADS), WebSphere 6.1, TOAD, Business Object 6.5/XI/XIR2/XIR3, IBM Cognos 10.2, Microsoft SQL Server Integration Services (SSIS). SSL3.0, OLAP, OLTP, Python, MITA 3.0, SIMM, Seibel Analytics and CRM, HIPAA X12, MDM, LDAP, Active Directory, Sun One LDAP

**California State DMV, Sacramento, CA July 2009 – Oct 2010**

**WSI Project (IBM)**

**Application/Data Architect**

The California Department of Motor Vehicles, Web Site Infrastructure (WSI) Project provides SOA/ESB and Identity management infrastructure portal. The solution comprises of ITIM, ITAM, ITFIM, BEA AquaLogic, WebSphere Application Server, Layer7 XML Gateway and TIBCO ActiveMatrix BusinessWorks. The project involved design and development of SOA framework for Identity management infrastructure. This project was designed to operate and define organizational business priorities. The project has several key tasks:

1. Identify organizational units/areas where a WSI solution is needed in Vehicle, Driver, eGov and Miscellaneous Domain
2. Develop a prioritized road map for implementing SOA based WSI at DMV
3. Develop Enterprise Data Model for DMV
4. Develop and Implement Enterprise Security model (Identity Management System)

**Responsibilities:**

* Developed and designed software implementation strategies for WSI (website infrastructure) involving web portals, SOA, data management, management dashboard, collaborative environments, and content management systems
* Responsible for developing and managing multiple projects/programs leading the overall data quality and data integrity across platforms and enterprise models.
* Worked primarily with Database Analysts, Business Analysts, Database Administrators, DMV Data Architects and application development teams supporting the development WSI projects.
* Participated in development of plans and strategies of data management processes and programs and provided direction and consultancy on data architecture topics.
* Facilitated improvement solutions by working with all levels across enterprise to determine database technology solutions that align with Business strategies, IT strategic directions and compliance objectives.
* Led as a member of a development team to provide business data requirements analysis producing logical data models, using a CASE tool to fully document and maintain models and ensuring integration into existing data architectures.
* Facilitated discussions between groups of IT and business partners at different levels; recognize issues of conflict and inconsistency between data requirements and pursue a resolution of these issues.
* Incorporate project models into a master model by comparing and reconciling differences to achieve a consistent integrated view of the whole business information requirements.
* Ensured adherence to data modeling guidelines, best practices and Standards.
* Led and conducted the necessary research and analysis on projects to identify and promote the reuse of existing standards, as well as the identification and development of new data standards.
* Assessed industry standards for information/data models with existing modeling standards, and where appropriate incorporated them into DMV information architecture standards.
* Defined a Meta-Data strategy to describe and administer data, and provide data lineage tracking ability and Data Life Cycle Management
* Developed and maintain data interoperability standards and interfaces
* Developed processes for data migration and integration between systems
* Contributed with standardizing the definition of data for reuse across the enterprise and works with application development and business partners to establish and maintain consistent data domain and data element definitions across lines of business.
* Established and applied the principles of data management - to develop a consistent, integrated, non-duplicated business-wide view of information and data to meet short and long term business requirements so that systems are developed which will require minimized maintenance and re-development in the future.
* Provided full hand over of the logical data model to the application development teams, as well as the DBA for the physical design and database build work.
* Led and participated in peer reviews of completed data models and plans to ensure quality, and identify alignment opportunities across portfolios or regions.
* Analyzed the requirement, business rules, use cases, and object models and developed Conceptual, Logical and Physical Enterprise Data Models and delivered it to project team.
* Developed Software detailed design document for entire application including Security Model, LDAP Architecture (ADSI), Layer 7 SOAP XML Gateway
* Developed and maintained Business Information Model and Data Flow Architecture for the various business domains within the organization.
* Developed data management strategy and process around data governance, custody, stewardship and security
* Defined and identified reference data, and provided strategy and process to harmonize Master Data creation and access across the enterprise
* Provided data validation, verification and reconciliation strategies
* Defined processes for Data Virtualization, using Service-oriented technologies.
* Collaborated and communicated with team members in other areas of IT like Java UI team, Data Administration, and Infrastructure team
* Data Mapping from UI layer to Service to Daas and Database layer for WSI application
* Development of a centralized data dictionary
* DB2 SQL Explain Plan Analysis and performance tuning
* Source Data Analysis and Data Profiling
* Transitioned Physical Data Model to Mainframe DBA.
* Coordinated with DBA in design and implementation of the Database.
* Performed system integration tasks for various applications and servers
* Managed and coordinated hardware remediation for failed components  for
* Database monitoring, backup and performance tuning, installation and configuration of RAC, RMON etc.

Environment: AIX 5.3, InfoSphere Data Architect (RDA), MDM, Erwin 7.3, Enterprise Architect, RUP, UML, Microsoft Project/Visio 2007, Microsoft Word/Excel/PowerPoint 2007, DB2 (Mainframe), DB2 UDB 9.5, Oracle 10GR2, TOAD, TIBCO Business Studio & Workflow, RAD, SVN, Rational Enterprise Architect, Visual Explain Plan for DB2, Window 2003 (ADS),SQL Server, WebSphere 6.1, Web-Logic, ALU Publisher, SecureSpan XML Gateway, LDAP, Active Directory, Sun One LDAP,Oracle EBS

**American Express, Phoenix, AZ Nov 2008 – June 2009**

**The AMEX BI Project with Oracle Corp**

**BI Architect/Performance Analyst**

The AMEX BI Initiative project is designed to deliver financial reports for critical analysis & research, and to define organizational BI priorities. The project has several key tasks:

1. Identify organizational units/areas where performance were impacting
2. Determine operational systems capacity to support BI information reporting and analysis
3. Develop a prioritized road map for implementing BI
4. Capacity planning and system architecture

**Responsibilities:**

* Assisted in Installation and configuration of Hyperion BI Suites
* Involved in Development of BI conceptual, Security, Component, Hardware Architectures
* Integration of Hyperion BI suites with Microsoft Active Directory Service for single sign-on authentication
* Configuration of ODBC connectivity for Essbase Analytics and BI Servers.
* Clustering of Print Servers and BI Repositories (Oracle Database)
* Assisted in Creation of Essbase Application, Cubes and Rules
* Performance tuning of Essbase Analytics, and Decision Support Systems (DSS),
* Performance Tuning of BI Server with JVM parameters
* Capacity planning for Essbase and BI servers.

Environment: Sun Solaris 5.10, Redhat Enterprise 5.1, Windows 2003 Server (ADS), Hyperion Enterprise BI 9+ Suites, Hyperion Finance Reports, HFM, Planning, MDM, Essbase Analytics, ORACLE 10G, PL-SQL, TOAD, Hyperion Essbase Analytics, Integration Services, IBM Websphere 6.1

**California State Lottery, Sacramento, CA July 2008 – Oct 2008**

**The Lottery BI Project**

**BI Solution/Data Architect**

The Lottery BI Initiative project is designed to research, analyze and define organizational BI priorities. The project has several key tasks:

1. Identify organizational units/areas where a BI solution is needed
2. Determine Lottery’s operational systems capacity to support BI information reporting and analysis
3. Develop a prioritized road map and Strategies for implementing BI at the Lottery
4. Establish appropriate data governance for managing BI for the long term

**Responsibilities:**

* Created and delivered workshops for BI opportunities in the Lottery
* Developed BI business opportunity matrix
* Development of BI conceptual, Security, Component, Hardware Architectures
* Designed Business Intelligence Readiness Review Model and analyzed the readiness.
* Development of Conceptual (ER & Dimensional)Data Model
* Architecture of ETL process including Staging Architecture
* Source Data Analysis and Data Profiling
* Developed policy for **Data Governance and data quality** and metadata management.

**Environment:** Microsoft Project 2003**,** SQL Server 2005, SSIS, T-SQL DB2 (Mainframe), TOAD, Erwin, Microsoft Office, Visio

**Department of Real Estate, Sacramento, CA March 2008 – Oct 2008**

**DRE DPM BI Project**

**Solution/BI Data Architect**

The California Department of Real Estate’s (DRE’s) mission is to facilitate information access to operational and industry status and metrics data so that Executive staff will have the accurate, current, and readily accessible information they need to direct their respective business areas. DRE will achieve this mission through the implementation of a DRE Performance Measures “baseline system” (DPM) that utilizes business intelligence software to leverage the existing DRE Enterprise Information System (EIS) and Oracle data stores with enhanced software and systems integration technology

The objective of this project:

1. Provide DRE Executives, managers and staff with easy access to strategic and tactical information from a consolidated source of data that can be used for analytical purposes
2. Improve the ability to share EIS information across the organization
3. Reduce the reliance on ITS staff to develop queries of EIS data that support management decision-making
4. Track effectiveness of DRE’s programs in meeting established targets, goals and performance objectives
5. Respond more timely to external information requests from constituents, industry, Legislature, control agencies, and other stakeholders

**Responsibilities:**

* Development of BI conceptual, Security, Component, Hardware Architectures
* Designed Business Intelligence Readiness and Decision Support Systems (DSS) Review Model and analyzed the readiness.
* Designed and developed system design document
* Defined the business rule and use cases with interaction with business users.
* Development of Conceptual and Physical (ER & Dimensional)Data Model
* Architecture of ETL process including Staging Architecture
* Preparation of project , Test case development and Test Execution plan
* Coordination of development team, infrastructure team, Business Users and QA team.
* Design and development of Performance/Functional and System Integration Testing Strategy for Data warehouse, and reporting system.
* Wrote complex test queries and developed procedures, functions, packages and triggers
* Integration of BI system with Microsoft Active Directory Services for single sign-on.

**Environment:** Microsoft Project 2003**,**  Hyperion BI 9+ Suites, OBIEE, Windows 2003 Server, ORACLE 11G, PL-SQL, Oracle Designer, TOAD, OWB, Essbase Analytics, Sun-Solaris, Oracle App Server

**Toyota Motor Sales, USA, Inc., Torrance, CA April 2007 – March 2008**

**APS Financial Transaction BI Project**

**BI Data Architect**

The objective of this project:

* For NAPO (North American Parts Operations System) to document and transfer to finance the current business rules that summarize the APS system's detailed transactions into PeopleSoft accounting requirements
* The finance group to accept the APS detailed transaction data and to create and maintain the environment for processing these transactions.
* To investigate in the inception phase the potential of transferring APS parts invoicing to PeopleSoft billing. The objective has been met by the month-end financials replication in the new system with a greater understanding of the business rules that are applied to each transaction.
* This visibility will allow business users to analyze the information quicker and solve reconciliation issues that have cost Toyota Motor Sales, USA, Inc. up to $15 million over the past several years. This will also address Sarbanes-Oxley compliance issues of building automatic checks and balances into the systems when transferring information into PeopleSoft

**Responsibilities:**

* Defined the business rule and use cases for Decision Support Systems (DSS) with interaction with business users.
* Development of Conceptual and Physical (ER & Dimensional)Data Model
* Architecture of ETL process including Staging Architecture
* Preparation of project , Test case development and Test Execution plan
* Coordination of development team, infrastructure team, Business Users and QA team.
* Design and development of Performance/Functional and System Integration Testing Strategy for Mainframe, Data warehouse, and reporting system.
* Source Transaction Data Process Analysis and Data Cleansing
* Wrote complex test queries and developed procedures, functions, packages and triggers

**Environment:** Microsoft Project 2003**,**  Hyperion BI 9+ Suites, Windows 2003 Server, ORACLE 9i/10g, PL-SQL, , Informatica Power Center 7.1/8.3, Oracle Designer, Rational ClearCase, Clarity, People soft8.9, DB2 (Mainframe), TOAD, WINSQL, Redwood Scheduler, RUMBA, Lotus Notes, Data Mirror TS 6.0

**SUREWEST, ROSEVILLE, CA Aug 2006 – May 2007**

**SWFTBI-PROJECT**

**BI Data Architect/Teach Lead**

**Responsibilities:**

* Managed and deployed the Surewest Business Intelligence Initiative and Decision Support Systems (DSS) Project successfully.
* Defined/authored Software Requirement Specification documents for releases of Business Intelligence Project. Work closely and collaborate with members of other product development organizations to provide cross-product integration for new features. Documenting details on how each feature was to be implemented and how it would fit within the current product offerings, taking into account Development resources available.
* Collaborated with the Hyperion, Oracle and Surewest Sales team for procuring the software*.*
* Responsible for System architecture (Including Hardware) & design analysis KSI, Sales Metrics, Subscribers Metrics and ADP(Advance Drop Placement) Revenue Assurance Metrics Reports, Dimension & OLAP Model
* Development of Conceptual and Physical (ER & Dimensional)Data Model
* Installation and configuration of Hyperion BI 9+ Suites (Enterprise Analytics, Interactive Reporting, Shared Services, Admin Services, Integration Services, Web Analysis, Reporting Metrics etc)
* Architecture of ETL process including Staging Architecture
* Source Transaction Data Process Analysis and Data Cleansing
* Development & deployment of OLAP Cubes
* Development of Load Script and loading and monitoring of Hyperion Analytics Server
* Migration of Old cubes on new system

**Environment:** Microsoft Project 2003**,** Redhat Linux, Hyperion BI 9+ Suites, Windows 2003 Server, SQL Server 2005**,** ORACLE 10g, PL-SQL, , ORACLE DATA WAREHOUSE BUILDER (OWB-10gR2), Erwin, People soft8.9, Genesys (Local Proprietary System), Sybase 11 Database, Verisign, TOAD

**SGS TESTCOM, RANCHO CORDOVA, CA April 2005 – Jan 2007**

**BAR:** **NGETODS BI-PROJECT**

**BI Data Architect**

**Responsibilities:**

* Delivered a comprehensive business intelligence solutions design, Conceptual Architecture, data architecture, ETL and staging architecture, infrastructure architecture, security architecture and KPIs and analytics reports in partnership with BAR business executives to be used by business users to analyze SMOG check analysis, Fraud detection, quick certification, cloning of technicians quicker and the related issues
* Responsible for project management of the enterprise Business Intelligence Data warehousing effort using the Hyperion Performance suite 8.5/OWB/Oracle 10g/Essbase Analytics/Web-Analysis/Apache
* Responsible for architecture & design analysis ODSBI Reports & OLAP Model
* Development of Conceptual and Physical (ER & Dimensional)Data Model
* Installation and configuration of Essbase OLAP Server, Admin Server, Integration Services, Analyzer, Hyperion Performance Suite 8.5
* Creation of custom ETL process
* Source Transaction Data Process Analysis and Data Cleansing
* Data Gap Analysis, data reconciliation and consolidation
* Creation of physical database schema and population of tables
* Development & deployment of DB2 OLAP Cubes
* Development of reporting strategies with Analyzer and HPS.
* Development of Load Script and loading and monitoring of Essbase OLAP Server
* Coordinated and facilitated Executive communication and status reporting for the project and managed tracking and assignment of issues, priorities and project risks.

**Environment:** IBM-AIX, DB2(Essbase 7.1.5) OLAP, ORACLE 9i/10g, PL-SQL, Analyzer(7.2), ORACLE DATA WAREHOUSE BUILDER, Erwin, Essbase Hub, Essbase Integration Server 7.1, Hyperion Performance Suite (HPS), TOAD , Pivot Table, Excel-Ad-Ins for Essbase

**Mayo Clinic, Rochester, MN Sept 2004 – Mar 2005**

**MAGIC:** **REPORTING & ANALYTICS BI-PROJECT**

**BI Solution/Data Architect**

MAGIC (Mayo Administration Goal for Integrated and Coordinated Systems) is an enterprise level effort (initiative) to establish an integrated electronic environment for an administrative suite of applications Mayo-wide.

Lawson is the software that has selected as a replacement to meet the administrative and functional needs of Human Resources, Finance's General Ledger System and the Materials Management system. Till now all the departments like HR, Finance and MM etc. have been maintaining their own data warehouse and reporting system with a fragmented approach. The MAGIC-BI Analytic & Reporting Project is the part of MAGIC project with the aim to provide enterprise wide strategy for information management targeting the retirement of legacy systems; by establishing processes for robust infrastructure for information/data management e.g. data quality management, access controls and audit processes, enterprise meta data repository, and building centralized information infrastructure (“single source of truth”) instead of a collection of data stores and reporting & analytic systems

**Responsibilities:**

* Responsible for architecture & design analysis
* Development of Conceptual and Physical (ER & Dimensional)Data Model
* Extracted data from Lawson applications including Lawson Financials (Accounts Payable, General Ledger, Accounts Receivables ) Purchasing, Materials Management, Asset Management and other active modules of Lawson for Data Warehouse.
* Installation and configuration of SQL Server 2000, MSOLAP, Essbase OLAP Server, Admin Server, Integration Service & Analyzer
* Source(Lawson) Transaction data Process Analysis
* Data Gap Analysis, data reconciliation and consolidation
* Lawson & DB2 schema mapping
* Creation of custom ETL process
* Development & deployment of DB2 OLAP Cubes
* Development of Reporting strategies
* Implementation of log shipping, data replication and configuration.

**Environment:** DB2 Connect**,** DB2 OLAP server 8.2 (Essbase 7.1.2), ORACLE 9i, PL-SQL, IBM-AIX, Analyzer(7.1), DB2 Mainframe/UDB Database, Erwin, Lawson, Crystal Report 10/11, Crystal Enterprise 11, Crystal Analysis 10/11, Essbase Integration Server 7.1, Hyperion Planning, Rapid SQL 7.3, , Business Object XI, Business Object **Data Integrator**, SQL server 2000, MSOLAP, MDX, Pivot Table, Excel-Ad-Ins for Essbase, Web Sphere, Tomcat

**New Market International, Portsmouth, NH Dec 2003 – Aug 2004**

**Delphi 9.2i,**

**SQL DBA/Performance Analyst**

Newmarket's DelphiTM products are in the forefront of the hospitality industry. These sales, marketing, and catering solutions are the standard for maximizing profitability by automating entire hospitality companies, helping manage international accounts, streamlining citywide marketing efforts, and providing meeting planners with Internet connectivity.

**Responsibilities:**

* Responsible for architecture & design analysis
* Analysis of data structure, queries, stored procedure
* Identification of data and application bottlenecks
* Implementation of best industry standard solution
* Index and Query Tuning
* Development of custom Replication Model consisting transactional and merge replication
* Administration & maintenance of 1.6 TB Data Server for Hilton Hotel
* Analysis of Audit logs, locks, and trigger optimization
* Scheduling of Jobs, backup process and analyzing the data integrity and security
* Implementation of log shipping, data replication and configuration

**Environment:** Windows 2000 Server, SQL Server 2000, T-SQL, SQL Analyzer, Profiler, C#, Visual C++, ATL, MFC NGS, XML, .NET Framework, , Crystal Report, Market Vision, COM/DCOM, ActiveX

**Client: Anthem Blue Cross & Blue Shield, VA Jan 2003 – Nov 2003**

###### Project: OnlineApps & Bife System Analysis

**Role: Data Architect**

The Online Application Analysis system was developed for the applicants submitting online application to check the trend of serious applicants based on region, sex and ethnicity. In BIFE (Business Information for Everyone) system all the processed data is taken from the mainframe DB2 database in the form of flat file and it is uploaded to SQL Server database. From SQL server database, summary table is created and data is loaded to Essbase OLAP server for the analysis

**Responsibilities:**

* Responsible for architecture, analysis, design, development of the application from the inception.
* Development of Database Schema for SQL Server and Informix database
* Created Batch Process for loading data in text format to SQL Server
* Developed complex stored procedure for updating database from flat ASCII file
* **Analysis of Financial Data** and Billing Information coming from MQ Server with Essbase OLAP
* Development of a multi-dimensional database (MDDB) application using Essbase Application Manager and the loading and manipulation of the data into the database using Rules files (Data Prep Editor). Additional tasks included configuration, and production support
* Generated Reports using web based tool Hyperion Report
* Development of , Data Flow Diagram (DFD), Entity Relation Diagram(ERD), Process Flow Diagram(PFD),UML static, collaboration, sequence, activities diagram for the application
* Coordinated physical changes and performance monitoring of two replicated production servers, two development servers and one reporting server, all Microsoft SQL Server 2000.
* Responsible for backups/restores, monitoring SQL uptime, designing and maintaining DTS packages.
* Reviewed and optimized SQL queries, stored procedures, views and triggers from other developers to achieve maximum efficiency and scalability.
* Wrote triggers and stored procedures to integrate 3rd party applications into in-house apps such as project management systems with a minimum of development time, helping the company build new partnerships faster.
* Profiled and tuned servers on a monthly basis to ensure fast queries and reports.
* Implementation of log shipping, data replication and configuration
* Trained developers on how to write better SQL, how to use more powerful features like table variables, how to avoid cursors, etc

**Environment:** Hyperion Essbase OLAP Server 6.5, Hyperion Analyzer 6.1, Reports, Planning MaxL, Hyperion Essbase Integration Server, DB2 UDB, MS Project 2000, Informix Database, SQL Server 2000, Transact-SQL, & Windows 2000

### Client: Peoplesoft Inc., Pleasanton, CA May 2001 – Dec 2002

###### Project: Commercial Budget 8

**Role: SQL DBA/Data Architect**

Budget8.0 is a web-based application specifically designed for **budget** & **financial** data analysis. The entire product revolves around getting the appropriate data into and out of the cube, monitoring the flow of that data and viewing the status of the budget. The Budget coordinator is responsible for establishing the content and scope of the budget, initiating and monitoring phases and reviewing the status of the budget cycle.

It is COM based application in VB Web class and utilizes Essbase DLLs and PeopleSoft Tools APIs for manipulating all the functions. PeopleSoft Application Server is used for connecting to Oracle, Informix, SQL, Sybase Databases and Hyperion Essbase OLAP Server.

## Responsibilities:

**General Activities:**

* Responsible for performance analysis of existing windows based product, development of new architectural design, documentation and testing
* Setup and configuration of PeopleSoft Tools, Essbase OLAP Server, Oracle 8i and SQL Server 7.0 databases

**Data Warehousing Activities**:

* Tasks included the design and development of a multi-dimensional database (MDDB) application using Essbase and the loading and manipulation of the data into the database using Rules files (Data Prep Editor). Additional tasks included configuration, and production support
* Created Applications and Databases using Essbase Application Manager
* Involved in Outline modifications, optimization, building cubes, creation of batch scripts, scheduling runs, developing report scripts and calc scripts.
* Designed and created Cubes for OLAP in Hyperion Essbase using rule files
* **Analyzed the Financial data coming to Cubes**
* Developed many load rules for loading specific type of data files. Extensively used ESSCMD to run calc scripts.
* Involved in Essbase DBA activities such as filter creation, creation of users, creation of groups and related activities
* Created Calc Scripts for calculating databases/subsets beyond the outline calculations and needing complex calculations.
* Involved in communicating and helping the developers to understand the data structure and the Essbase cube multi-dimensional data structure.
* Responsible for performance monitoring, data warehouse tuning and data warehouse backup and recovery and customer on call

**Oracle & SQL DBA Activities**:

* Designed the Logical Data Model (LDM) and Physical Data Model (PDM) using **Erwin** for data modeling
* Involved in creating table spaces, tables, stored procedures, triggers, indexes, user defined data types etc. **Maximizing database consistency and concurrency, error handling and normalization.**
* Supporting developers in tuning DB and apps for optimal performance
* Monitoring DB growth and provide DB capacity planning for apps expansion
* Creating SQL scripts to automate most of the repeating tasks such as backup, recovery, import/export, SQL load, creation of synonyms, tables, indexes, and other objects. I created corresponding batch files so that other authorize users may run these tasks independently and through the job scheduler
* Monitoring performance and tuning of Oracle Data Server that includes creating indexes, updating statistics and improving the performance various queries, stored procedures using Statistics I/O and
* Used **SQL Loader** Utilities to import and export data
* Performed transferring data into a SQL database from other sources, loading a database backup file from a previous version of **SQL Server**
* Writing and tuning complex **PL/SQL** queries to create flat files used for data warehousing data loading.
* Responsible for creating databases in Staging and production servers

**Environment:** Hyperion Essbase OLAP Server 6.1, Visual Basic, PeopleSoft Tools, ASP, IIS, IE5.0, Oracle 8i, PL/SQL, SQL Server 7.0/2000, ClearCase, WinNt4.0 & Apache Server.

**Client: 3CX.com, San Jose CA Jan 2000 - April 2001**

**Project: Univos**

Role: **SQL DBA/Developer/Data Architect**

The Univos were developed for online ordering automation of Live Cast, Media clips, eTraining and Media Streaming for 3CX Inc. The client could create an account and order any event to broadcast on internet and can publish any media clip and presentation enriched with media contents like video, audio and documents with live chat facility. Decision Support System (DSS) was designed for forecasting the bandwidth use, usage trend of live cast, and media clips. Hyperion Essbase OLAP server and Essbase Excel Add-In were used for analysis.

**Responsibilities:**

* Involved in physical database implementation, Disaster Recovery Strategy i.e. planning appropriate backup and recovery strategy, using Fault-Tolerant Drive sets (RAID), and Standby Server.
* Used Virtual Servers (Clustering Service for Fail over Support) Microsoft Cluster Server (MSCS) software providing a clustering technology that keeps server-based applications highly available, regardless of individual component failures.
* Did Data and Storage Management i.e. estimating storage requirements for databases - monitoring space usage, creating database.
* Distributor Replication model using automatic/manual synchronization process.
* Extensively used DTS in our data-driven applications, offering rapid and effective solutions to a wide range of common problems and complex data transformations involving moving data between different servers, applications and providers.

**Environment:** Essbase OLAP Server, Transact-SQL Visual Basic 6.0, IIS5.0, ADO2.5, CDO, COM/DCOM, MTS, SQL Server 7.0/2000 & Windows NT/4.0

**Client: Sprint, Atlanta, GA May 1999 – Dec 1999**

**Project: Virtual Data Re-Entry** **(Vdr System)**

**Role: Data Architect/Team Lead**

Virtual Data Re-Entry (VDR) System: VDR system was developed in VB and SQL Server 6.5 as an interface between Automated Order Processing System (AOPS) and IBM Mainframe. VDR puts all the customers’ information on mainframe system (MOM) automatically. Extra Office Client (Attachmate) 6.4 has been used to connect VDR to Mainframe screens VDR is also used in OMNI, MAGIC, FR054 and other special projects for processing various orders in SPRINT. VDR has replaced the job of a data operator and has accelerated order processing 20 times faster.

**Responsibilities:**

* Defined standards for database object naming conventions.
* Created and maintained all database objects viz. Tables, Constraints, Triggers, Stored Procedures, and Views, User Defined Data types for business functionality and performance, concurrency control, error handling and normalization as major considerations.
* Wrote VB batch scripts as database release tools, data loading tools etc. Fine-tuned SQL Server using tools like Performance Monitor, SQL Trace, and DBCC etc.
* Optimized database access using optimization hints, execution plan, update statistics, use of indexes, fill factors and de-normalization.
* Monitor and Audit server activities, resolve-locking etc.
* Developed utility applications using VB6.0 that encrypt and decrypt passwords, write and read from registry using API calls, communicate with Rate Server to get rates, statistics etc.
* Performed interface design and development for the conversion program, Registry Class Module, various special projects and FR054Module and Modified the old VDR system
* Customer support on call

**Environment:** Visual Basic 5.0/6.0, ActiveX, MS Access, Extra Office Client 6.4, T-SQL, SQL Server 6.5, Windows NT

**Client: Steel Authority of India Ltd., India July 1990 - April 1999**

**Project: Online Inquiry System for Telecom Department**

**Role: DBA/Project Lead**

Steel Authority of India Limited (SAIL) is the leading steel making company in India. It is a fully integrated iron and steel maker, producing both basic and special steels for domestic construction, engineering, power, railway, automotive and defense industries and for sale in export markets.

The Online Inquiry System was developed in Visual Basic 6.0 & MS SQL 6.5/7.0 Server for searching details of ten thousand subscribers of Bokaro Steel City by first name, last name, phone number, pillar number, DP number, utility, category, profession etc. and generating the automatic bill & its status.

**Responsibilities:**

* Responsible for requirements analysis, logical and physical database design, Application Design, coding and testing, creation of user manual and End User Training
* Responsible for installing and upgrading SQL Server, logical and physical database design, creating objects i.e. database, tables, stored procedures, Cursors, triggers, indexes etc.
* Migration of Data from FoxPro to SQL Server
* Involved in taking regular backups/dumps of database, creating user groups and logins, assigning privileges against objects for each user and groups
* Developed the front-end and implemented the project successfully

**Environment:** FoxPro, Visual Basic 6.0, ActiveX, ADO, COM, Visual SourceSafe, MS SQL Server6.5/7.0 & Windows NT

**Project: Material Management System for Material Management Department**

**Role: DBA/Tech Lead**

MMS was developed to handle a huge volume of inventory transactions using Visual Basic, SQL Server, Crystal Report, and Access97.

**Responsibilities:**

* Responsible for requirements analysis, logical and physical database design, Application Design, coding and testing, creation of user manual and End User Training
* Responsible for installing and upgrading SQL Server, logical and physical database design, creating objects i.e. database, tables, stored procedures, Cursors, triggers, indexes etc.
* Migration of Data from Access 97 to SQL Server
* Involved in taking regular backups/dumps of database, creating user groups and logins, assigning privileges against objects for each user and groups.
* Monitoring SQL Server for performance tuning and query optimization, disk mirroring and replication implementation.
* Did periodic maintenance and checks on database using DBCC, migration from SQL Server 6.5 to SQL Server 7.0

**Environment:** Visual Basic 5.0/ 6.0, COM, MS Access, ActiveX, ADO, Crystal Reports, Transact-SQL, SQL Server 6.5/7.0 & Windows NT

**Project: Parameter Performance Recording and Diagnostic System**

**Role: Software Engineer**

PPRADS was developed for maintenance department (CMMS) in Bhilai Steel Plant of Steel Authority of India ltd. (SAIL). The plant is not fully automated and has very wide geographical area. The machine operator has to record the performance of the machine periodically on a PC. The recorded data is brought to CMMS department where the data is analyzed. Based on the performance of the machine a determination for service is made.

**Responsibilities:**

* Responsible for requirement study, problem analysis and development of the functional specification and software design for each machine of Continuous Casting and Converter Shop modules
* Wrote the codes & documentation for these Modules and tested

**Environment:**  Visual Basic 3.0, MS Access & Windows 3.1