

# SUSMIT BOSE

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## Database Development | Project Execution

*Versatile Technocrat noted for driving innovation leveraging project management, database development, software development and leadership to gain competitive edge*

CORE COMPETENCIES	PROFILE SUMMARY
<b>Database Development</b> <b>Data Modelling</b> <b>Data Analysis</b> <b>Requirement Gathering</b> <b>Data Import / Export</b> <b>Software Development</b> <b>Database Architecture</b> <b>Solution Design</b> <b>Client Relationship Management</b> <b>Liaison &amp; Coordination</b> <b>Team Management</b>	<ul style="list-style-type: none"><li>• Rising Technology Executive noted for delivering projects on database design and development using Erwin, Oracle (9i, 11g, 12c), SQL server (2005, 2008, 2012, 2017), Sybase 12.5 systems; vast exposure across Banking, Insurance and Retail domains; offering over 13 years of experience</li><li>• <b>Leveraged Project Management Expertise</b> in leading the planning, execution and management in tune with the core business objectives; reviewed functional requirements and translated them into technical specifications</li><li>• <b>Database Architect</b>- led the creation &amp; maintenance of database /application architecture and standards following Oracle Best Practices for physical structures, logical databases, and user management</li><li>• Drove the creation of designs and plans for the integration for all data components; reviewed data design, tool design, data extracts/transforms, networks and hardware selections</li><li>• Broad-based acumen of PL/SQL programming, Power Builder, Transact-SQL and distributed queries, database connectivity, connection object and managing multiple databases</li><li>• A strategic planner with proficiency in streamlining business processes, defining continuous improvement processes, accelerating employees' strengths &amp; building powerful teams that can conquer any obstacles</li></ul>

## WORK EXPERIENCE

Mar'12- till date

Cognizant Technology Solutions as Senior Associate – Projects

### Key Result Areas:

- Working with Business users to gather & understand the business need(s), analyze the requirement(s), Design the Data Model to best fit the business needs and come up with the Logical & Physical Data Model
- Collaborating with end-users and department managers for capacity planning and development of long-term strategic goals for database development using Oracle, SQL Server, Sybase systems
- Administering requirements gathering, collation of project functional and technical requirements; following-up with clients throughout the project lifecycle to ensure full understanding of needs and concerns
- Interfacing with application support staff in developing database architectures, coding standards, and quality assurance policies and procedures; designing and implementing relational database model as per business requirements; creating Indexes, Views, complex Stored Procedures, User Defined Functions, Cursors, and Triggers to facilitate efficient data manipulation and data consistency
- Maintaining the database performance by calculating optimum values for database parameters, implementing new releases, completing maintenance requirements and evaluating computer operating systems & hardware products
- Importing/Exporting Data from various data sources like Excel, Oracle and Flat file; maintaining Oracle Golden Gate replication process on Unix environment
- Monitoring the system for performance and load issues; monitoring & supporting patch control and database configuration across environments; executing application patches and ensured that the rollback strategy was in place
- Managing the creation & maintenance of database/application architecture & standards following Oracle Best Practices for physical structures, logical databases, and user management
- Developing, maintaining and implementing data windows, visual & non visual user objects, windows and other utilities in Power Builder; creating forms, reports, nested data windows, drop down data windows and implementing business logics
- Ensuring the delivery & operations of database platforms, proper integration with other applications and systems through effective staffing, technical leadership, monitoring, metrics, and operational excellence

### Highlights:

- Created comprehensive enterprise reference data model(s) to support future development projects for customer(s) in various business areas
- Delivered database components e.g. Packages, Procedures, Functions, Triggers etc. to fulfill the business need(s)
- Created Data Migration program to move data from existing system to new system

- Reduced development effort by 20% and schedule by 15%
- Successfully completed delayed projects essential for operational efficiency by identifying and solving complex technical problems using interdisciplinary teams; restricted the schedule delay to 10%
- Managed onsite development and maintenance teams of 15 – 25 personnel located in different cities in USA

#### PREVIOUS EXPERIENCE

<b>Dec'09-Mar'12</b>	<b>Dell International Services as Software Development Analyst</b>
<b>Aug'09-Dec'09</b>	<b>Thinksol Software (Pvt.) Ltd. as Software Developer</b>
<b>Jul'08-Aug'09</b>	<b>Global System Technologies India (Pvt.) Ltd. as Junior Developer</b>

#### ACADEMIC QUALIFICATIONS

- B. Tech from West Bengal University of Technology with a DGPA of 7.39 in 2006
- 12<sup>th</sup> from West Bengal Board of Higher Secondary Education in 2002
- 10<sup>th</sup> from West Bengal Council of Secondary Education in 2000

#### TECHNICAL SKILLS

- **Programming Languages:** PL/SQL, T-SQL, Power Script
- **Software:** Toad 12.0, Erwin, MS SQL Server, PL/SQL Developer, SQL Developer, Interactive SQL 11.0, Power Builder, MS Visual Studio
- **Version Control:** VSS, PVCS, SVN, Harvest, GitHub, UDeploy, Jenkins
- **Databases:** Oracle 9i / 11g/ 12c, SQL Server 2005/ 2008, Sybase 15/12.5, DB2
- **Scheduler:** AutoSys
- **Operating System:** Windows 2005, Windows XP, Windows Server 2005, Unix

#### TRAININGS & CERTIFICATIONS

- Oracle PL/SQL Developer Certified Associate (**OCA**)
- Successfully completed Oracle 9i (SQL & PL/SQL) training from Oracle partner SQLSTAR
- Completed Python training from Udemey on Jun-2020
- Successfully completed "**Exercising Leadership: Foundational Principles**" certification from HarvardX, an online learning initiative of **Harvard University**

#### PERSONAL DETAILS

**Date of Birth:** 1<sup>st</sup> May 1983  
**Languages Known:** English, Bengali and Hindi  
**Present Address:** Delhi, India

(Please refer to the annexure for project details)

## ANNEXURE

### ORGANIZATIONAL PROJECTS:

Title: LPL BODS Migration  
Period: Mar'21 – till date  
Operating System: Windows 10, Unix  
Tools: SSMS, Putty, Erwin, SSIS  
Databases: SQL Server 2012 R2  
Description: LPL Financial is one of the biggest Banking customer. The project includes migration of the BODS system from MS SQL Server to Oracle Exadata. Analysis of the existing SQL Server components and plan for the migration of the same objects are major activity of this project. This includes design of the new database, analyzing the existing components to fit those into the new system; once these will be finalized then coding of the new objects and testing ALL the business process(s) will be done subsequently.

#### Key Result Areas:

- Analysis of existing database components and system
- Design the new database on Oracle Exadata platform
- Create plan for migrating existing database along with data and components to the new system
- Data profiling & analysis
- Unit testing of code for making sure ALL the business process(s) and component(s) are working as expected

Title: WF CDBO Support  
Period: Jul'20 – Feb'21  
Operating System: Windows 10, Unix  
Tools: SQL Developer, Putty, AutoSys, Calypso  
Databases: Oracle 12c  
Description: Calypso is a 3<sup>rd</sup> party application which provide Capital market banking solution. The purpose of the CDBO Support project is to give back office production support to the Calypso application, which is widely used by customer. As a production support engineer, the responsibilities include monitoring the application and database to make sure its up & running during business hours. Resolving any data related issue(s), maintaining data quality, executing Unix batch jobs through AutoSys scheduler and performing data analysis in course of resolving productions issue(s) are also part of daily activities. Apart from that, installing any patches for the application, implementing application upgrades provided by the vendor are also include as part of support.

#### Key Result Areas:

- Application & Database monitoring
- Maintain data quality
- Resolving production issue(s) related to database & application
- Data profiling & analysis
- Installing application patches & upgrade application as required

Title: JB Hunt – Project Next  
Period: Jul'19 – Jun'20  
Operating System: Windows 10  
Tools: Erwin, SSMS, Visual Studio, Toad  
Databases: SQL Server 2017  
Description: Project Next is associated with remodeling of different business area(s) of one of the biggest transportation customer. As a Data modeler & architect, my responsibility includes requirement understanding, creation of data model for new database object(s), making necessary modification to existing data model(s), maintaining data model repository, data profiling, data analysis and beyond.

#### Key Result Areas:

- Requirement gathering
- Understanding & Analysis of requirement
- Preparing, modifying & reviewing Data model(s)
- Data profiling & analysis
- Client handling, onsite – offshore coordination

Title: Customer Connect Apps Enhancement  
Period: Feb'19 – Jul'19  
Operating System: Windows 10, Unix  
Tools: Toad, VSS, Autosys  
Databases: Oracle 12c Exadata  
Description: Customer Connect is a bunch of apps for maintaining customer data for one of our energy client. To enhance the app(s) for incorporating new features as per end user's requirement; and improvement of performance is the key goal of this project. As an onsite development team lead,

my responsibilities are requirement gathering, analysis, solution designing, coordinate between business, offshore development team & QA team etc. Project planning, preparing delivery schedule based on business needs, secure timely delivery maintaining quality of code is also part of my responsibility.

Key Result Areas:

- Requirement gathering
- Understanding & Analysis of requirement
- Preparing & reviewing Design docs
- Reviewing code & unit test docs
- Client handling, onsite – offshore coordination

Title: SQL Server – Oracle Exadata Migration  
Period: Jul'18 – Jan'19  
Operating System: Windows 7, Unix  
Tools: SQL Developer, SSMS, GitHub, Jenkins, UDeploy  
Databases: Oracle 12c Exadata, SQL Server  
Description: Currently customer is using SQL Server as backend database for the 2 apps come under this migration effort. For better performance and to adopt latest database features, they are in process to migrate the SQL Server database to Oracle Exadata. As an onsite development team lead, my responsibilities are requirement gathering, analysis, solution designing, coordinate between business, offshore development team & QA team etc. Project planning, preparing delivery schedule based on business needs, secure timely delivery maintaining quality of code is also part of my responsibility.

Key Result Areas:

- Requirement understanding & Analysis
- Preparing & reviewing Design docs; Reviewing code & unit test docs
- Performing Gap analysis between SQL Server and Oracle database
- Client handling, onsite – offshore coordination
- Project planning, ensure quality and timely delivery

Title: DB2 – Oracle Exadata Migration  
Period: Sep'16 – Jan'19  
Operating System: Windows 7, Unix  
Tools: SQL Developer, Harvest, Anthill Pro, Autosys  
Databases: Oracle 12c Exadata, DB2  
Description: Currently customer is using DB2 as backend database. For better performance and to adopt latest database features, they are in process to migrate the current DB2 database to Oracle Exadata. As an onsite development team lead, my responsibilities are requirement gathering, analysis, solution designing, coordinate between business, offshore development team & QA team etc. Project planning, preparing delivery schedule based on business needs, secure timely delivery maintaining quality of code is also part of my responsibility.

Key Result Areas:

- Requirement understanding & Analysis
- Preparing & reviewing Design docs; Reviewing code & unit test docs
- Performing Gap analysis between DB2 and Oracle database
- Client handling, onsite – offshore coordination
- Project planning, ensure quality and timely delivery

Title: First Data Telecheck  
Period: Aug'15 – Aug'16  
Operating System: Windows 7, Unix  
Tools: Toad for Oracle 12, SVN, MS VSS  
Databases: Oracle 11g  
Description: Being a DBA cum database developer & customer coordination team lead of the project, I have to gather new requirements from business, analyze the requirement, get the solution designed by offshore team, reviewing of design & code, ensure flawless delivery etc. The DBA activities like database design, creating database objects in development environment, creating scripts for QA & Prod etc. also are part of my daily activities. In the Telecheck project the database replication is handled through Golden Gate technology. I am also owner of the Golden Gate activities in development. Creating Golden Gate scripts for higher environment is also handled by me at the time of release.

Key Result Areas:

- Mapped requirement from business & end users; conducted requirement analysis & solution designing, design document & code reviews
- Created database objects on development environment; maintained Golden Gate set up on development environment
- Created scripts database & Golden Gate scripts for production & QA release; managed onsite teams and coordinated with offshore teams

Title: State Auto IBA Support  
Period: Aug'14 – Aug'15  
Operating System: Windows XP, Windows 7, Server 2008R2  
Tools: PowerBuilder, SSMS, asp.net, SSIS  
Databases: SQL Server-2008R2  
Description: IBA is the abbreviation of Internal Business Applications. State Auto Insurance was a new account to Cognizant. Involvement started from the beginning of establishing this account. Initial responsibility included taking Transition for apps, planning KT session with client and other third party vendors, initial environment setup, project planning etc.  
Later on as part of IBA there were more than 70 different applications. Our team was responsible for Production support and enhancement of the applications. Some of the applications were third party vendor purchased apps. Supporting those applications includes vendor coordination, real time issue resolution etc.  
There were some apps which were internally developed by State Auto Insurance Company. Our team was responsible for end to end support these apps. Responsibility for those applications includes requirement gathering, onsite-offshore coordination, project execution planning, production support, onsite team handling etc.

Key Result Areas:

- Managed the transition of applications from earlier support teams; documented the entire knowledge transferred during the transition period
- Planned Knowledge Transfer sessions with client support team and third party partners; set up initial environments and maintained their code base
- Created Technical Design for the application in collaboration with Infrastructure team
- Led team to give real time support to 70+ apps

Title: Levi's Insourcing  
Period: Mar'12 – Jul'14  
Description: Insourcing is basically a Level 3 (L3) production support, maintenance and enhancement project. The objective of this project is to give support to retail applications, used by the client for end to end business needs, viz. inventory management, POS & online sales, accounting, resource management and many more. Real time production support to the end users (POS/ Stores or Back office operators and various different levels) given through this project. Any data related issue, database problem resolution, reporting, integration, application support, taking care of connectivity issues are the goal. Also, any sort of enhancement in application, upgrading, creation and integration of new modules are also part of Insourcing project.

Operating System: Windows XP  
Tools: SSMS, Power Builder 10.0  
Databases: SQL Server-2008

Key Result Areas:

- Participated in Requirement Gathering sessions with clients
- Created Technical Design for the application working alongside with Infrastructure team
- Created batch files that executes the ETL scripts which invokes SSIS packages
- Created package to transfer data from Flat file, Excel to OLAP databases
- Managed performance tuning of queries to improve the database performance
- Worked with team to resolve performance related issues in application using DMV
- Created and tuned Stored Procedures, Triggers, Tables and Views
- Created reports and designed forms for application using Power Builder

Title: Branch Desktop Delivery  
Period: Dec'09 – Mar'12  
Description: Branch Desktop Delivery was all about enhancing and maintenance of number of banking and insurance applications used by a globally recognized European bank. Activities in project involved enhancement of the applications by fixing bugs, creating new modules, reports, forms as requested by the customer.

Operating System: Windows XP  
Tools: SSMS, PL/SQL Developer, Power Builder (6.5, 8.0, 11.5)  
Databases: SQL Server-2005, Oracle 9i

Title: Sea Star Global  
Operating System: Windows XP  
Tools: PL/SQL Developer, Power Builder (6.5, 8.0, 11.5)  
Databases: Oracle 9i  
Description: Sea Star Global was a maintenance & support project. It was an end to end solution used by a global shipping corporation to maintain the booking, porting management, billing, inventory control etc. As a member of the support & maintenance team, I was responsible for debugging of

code, bug fixing, database maintenance, solving data related issues, give real time support to the end users.

Title: ERP –Gov  
Description: ERP – Gov was an accounting product used by various domestic and international customers and inside the organization as well. Responsibility was to give real time support to the end users, solving any data related problems, application problems, database issues. Responsibility also included enhancement and bug fixing of the product.  
Operating System: Windows XP, Windows Server 2005  
Tools: Power Builder 10.5, Interactive SQL 9.0  
Databases: Sybase 12.5

Title: Payroll Management System  
Description: Payroll Management System was a project to provide an HR solution to a renowned manufacturing company of India. The project started from the scratch level from the requirement gathering phase by talking with the end users, and the higher management executives of the organization. Starting from requirement gathering, the project ended up with making end users comfortable to use the new solution. In the entire journey project passed through phases like solution designing, database design, coding, unit testing, integrating modules, integration testing, system testing, load testing, user acceptance test and many more.  
Operating System: Windows XP  
Tools: Power Builder 8.0, Interactive SQL 9.0  
Databases: Sybase 12.5

Title: Banquet Management System  
Operating System: Windows XP  
Tools: Power Builder 8.0, Interactive SQL 9.0  
Databases: Sybase 12.5  
Description: Banquet Management System was a project to provide booking and billing related solution for a banquet of a giant food product company of India. The project started from the scratch level and ended up with making end users comfortable to use the new solution. In the entire journey project passed through phases like solution designing, database design, coding, unit testing, integrating modules, integration testing, system testing, load testing, user acceptance test and many more.