## KRISHNAN VENKATARAMAN

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# Objective

*To obtain a challenging Database Development position in a reputed organisation that demands hard work, innovation and the contributions of a seasoned professional.*

# CORE SKILLS

|  |  |  |
| --- | --- | --- |
| * SQL-Server | * Database Administration | * SQLServer 2012 Data warehouse |
| * SSIS | * SSAS | * SSRS |
| * Netezza | * C# | * Dimension Modelling &MDX Query |
| * Oracle | * Linux/Unix Shell Scripting | * Eclipse |
| * Informix | * Sybase | * Excel Macro |

# HIGHLIGHTS

* **Certified** in Querying Microsoft SQL Server 2012.
* A seasoned Database Developer with more than **10 years** in System Analysis, Design, Development, Testing, and Administration: complete application development life cycle
* Expertise in several RDMS’s includes **SQL Server, Access** and **Oracle**, and 10+ years with **Informix**
* Created Databases, Tables, Stored Procedures, DDL/DML Triggers, Views, User defined data types, functions, Cursors and Indexes using T-SQL.
* Excellent in High Level Design of **ETL DTS**Packages**& SSIS**Packages for integrating data using **OLE DB** connection from heterogeneous sources like (Excel, CSV, Oracle, flat file, Text Format Data) by using multiple transformations provided by **SSIS** such as **Slowly Changing Dimension**, Lookups, **Bulk Insert**, **Merge** and **Data Quality Services**. These include writing of **VBA / C# scripts** using Script task and Script component task respectively.
* Hands on experience in Creating **Star Schema**and **Snow Flake** Schemas and adept in writing **MDX Queries.**
* Worked in **MS Excel and Access** in various projects with a proven expertise **i**n **VBA/Excel Macros, Power Query, Power View and Power Pivot**.
* Expert in writing complex SQL and MDX queries, created various types of reports like drill down, Parameterized, Cascading, Conditional , Table, Matrix, Chart and Sub Reports using **SQL Reporting System** and **Crystal Reports**.
* Experience in **Performance Tuning**and **Query Optimization**.
* Experience in maintenance and Administration of **SSIS** by creating Jobs, Alerts, SQL Mail Agent, and schedule **DTS/SSIS Packages**.
* Experienced with several operating systems includes **Sco-Unix**, **Linux**, **Windows** and writing **Shell Scripts**
* Strong **Database Administration** skills including **installation/implementation, backup/recovery, user administration, storage space optimisation**
* Implemented solution for **Hadoop Big Data** solution for **Payment Hub for CIBC** by using **Hive and Linux Scripting.** Scheduled the jobs by writing scripts for **SFTP** and **Autosys**..
* **ETL** (Extract, Transform and Load) into Big Data Cloud Era using Linux Schell Scripting from Feed Hub.
* Banking experience in implementing solutions using **Hive, Pig, Ooozie, Sqoop, Flume**, **Pig and Eclipse**.
* Effective communication skills include Strong training and presentation skills; with multi tasking abilities

**PROFESSIONAL EXPERIENCE**

**Bank of Montreal. Canada**

**August 2015– Present**

**BI Developer**

Responsible for creating and modifying existing SSIS Packages pertaining to Loan Origination System(LOS) -  Marketing & Salesforce, to build a Consolidate Data Mart consisting of Loan Application with attribute defining application level information along with a consolidate view of Applicants / Borrowers who either could be existing Customer of the bank or potential prospects. This identification of Customer vs Prospects was done by combining additional data feed coming from another legacy Customer Matching process which is housed in the old data platform of BMO Harris called HIWE. These Consolidated Data Marts are used for building reports , workflows using tools like SAS and UNICA - Campaign Management by Business/End Users for marketing & soliciting needs addressing existing Customers and potential Customers/Prospects.This included writing queries in Netezza in accordance with predefined template to be used in SSIS. The query included challenges as to the validation, errors handling and all other aspects of SSIS to be carried out only using Netezza Query.

* Created and Modified 10 SSIS Packages to incorporate new dimensional table consolidating incremental loads of all daily application and applicant processes.
* Created several Netezza query which handled all the tasks of SSIS as well like validations, data matching, joins, error handling and packages for performance and accuracy of the result set.
* Carried on data transfers to and from the clients and solved data transfer issues.
* Generated and deployed SSIS Packages in multi server environment and generated and run deployment scripts for rapid deployment across various servers and included Package administration and assigning permissions.

**Technical Environment**

* SQL Server 2008, 2012, SSIS, Netezza
* Created SSIS Packages, triggers, table valued functions, stored procedures, deployment scripts and Batch files.

**CIBC.Canada**

**Hadoop Developer**

**January 2015– July 2015**

Responsible for ingestion of source system files from Intria, RBSS, POS, ABM, Remote Banking & Visa and stage them for consumption in Hadoop HDFS file system and exposing the data to target systems utilizing the Hadoop hive database interphase

* Created and Modified scripts for creation of temp directory, temp tables, copying the source files to hdfs, validating count, header and trailer of source files, creating and inserting into hive tables, recording the audit entries, archiving the source file and clean up.
* The Hive tables created as per requirement were Internal or External tables defined with appropriate Static and Dynamic partitions as per interface agreements and data models.
* Create **sftp** scripts to pull files from feed hub into landing zones on edge node.
* Handled importing of data from various data sources, performed transformations using Hive, worked with **HCatalog** to open up access to **Hive's meta-store**using **PIG & MapReduce**, loaded data into HDFS and extracted the data from Oracle and SQL Server into HDFS using Sqoop.
* Implemented partitioning, dynamic partitions and buckets in HIVEdesigned and implemented Hive and **Pig UDF's** for evaluation, filtering, loading and storing of large sets of structured, semi structured and unstructured data and extensively used Pig for data cleansing.
* Worked on Performance Tuning of Hadoop jobs by applying techniques such as map side Joins, Partitioning, Bucketing and using different file formats such as SequenceFile, RCFile, ORCFile, XML file.
* Wrote Scripts using Eclipse to generate Map Reduce jobs and performed ETL procedures on the data in **HDFS** using **PIG**, **Hive**, **Python** and **OOZIE**.
* Developed workflow in Oozie to automate the tasks of loading the data into HDFS and pre-processing with Pig
* Exported the analyzed data to the relational databases using Sqoop for visualization and to generate reports for the BI team.
* Created HBase tables to load large sets of structured, semi-structured and unstructured data coming from UNIX, **NoSQL** and a variety of portfolios.
* Carried out DIT testing exhaustively including negative test cases and transferred scripts for SIT testing.

**Technical Environment**

* Cloudera Hadoop, Hive, Pig, Python, Sqoop, Oozie, Oracle 11g, Linux and Unix, Eclipse.

**General Mills . Canada**

**BI Developer**

**Nov 2013- Dec 2014**

Responsible for creating and modifying existing SSIS Packages for incorporating two new product hierarchy viz . SORG and GPH . This include identify and modifying existing tables, views and Stored Procedure and to populate the data into development, QA and Production Environment. In addition to it I am also responsible to develop/modify existing packages to enable implementation in new Database pertaining to Prism 2.0.

* Created and Modified 25 SSIS Packages to incorporate new Product Hierarchy and implemented the same in Production well before the tight deadline.
* Created several stored procedures and functions and optimized the query and packages for performance and accuracy of the result set.
* Upload data into dimension and measures by pulling incremental data from Oracle and SAP data sources.
* Carried on data transfers to and from the clients and solved data transfer issues.
* Generated and deployed SSIS Packages in multi server environment and generated and run scripts for rapid deployment of reports which included Package administration and assigning permissions.

**Technical Environment**

* SQL Server 2008, 2012, SSIS, Oracle 11g, SAP, SSAS
* Created SSIS Packages, triggers, table valued functions, stored procedures, deployment scripts and Batch files.

**HiNext.Com .Canada**

**BI Developer/Architect**

**May 2012- October 2013**

Responsible for creating centralized **Reporting database** and includes development and implementation of **500 Reports** replacing the legacy Reports in Foxpro for the client **CBI Heath Care**. This involved studying the existing reports, designing and creation of a Database.

* Design and build complex relational databases and data warehouses. Designed the database by creating tables, semi-summary tables and other database objects to cater to the needs of the user requirements.
* Responsible for report performance and interacted with the DBAs to advise on table partitioning, data imports from DB2 databases and other issues.
* Production support on all the user issues including bug fixing, report enhancements, and user training.
* Developed more than 60 Reports and includes Business Review Reports, Monthly Reports and Daily Reports reflecting various facets and decision points of the system and depicting using charts
* Created several stored procedures and functions and optimized the query for performance and accuracy of the result set.
* Created and modified 20 Reports for several clients at **Hinext.com** and deployed the reports to the remote client servers.
* Carried on data transfers to and from the clients and solved data transfer issues.
* Generated and deployed reports in multi server environment and generated and run scripts for rapid deployment of reports which included report administration and assigning table permissions.

**Technical Environment**

* SQL Server 2005, 2012, SSRS, SSIS, Visual Foxpro, C++
* Created triggers, table valued functions, stored procedures, and deployment scripts.

**iMarketing Solutions Group Inc. Canada**

**BI Team Lead / Architect**

**October 2011- April 2012**

Responsible for merging **1300 Client databases** into a single database and includes development and implementation of new system replacing the legacy system in Foxpro. This involved studying the existing system, designing and creation of a Database.

* Work with technical and end users to understand business requirements and identify data solutions.
* Provide leadership and direction to database developers
* Provide performance tuning of database systems for query and data loading performance, including data partitioning, indexing, data model review/updates, etc.
* Design and build complex relational databases and data warehouses. Designed the database by creating tables, semi-summary tables and other database objects to cater to the needs of the user requirements.
* Responsible for report performance and interacted with the DBAs to advise on table partitioning, data imports from DB2 databases and other issues.
* Production support on all the user issues including bug fixing, report enhancements, and user training.
* Created SSIS Packages and developed stored procedure to **port the historical data** from legacy system and for importing **daily sales data** generated by various call centers using Slowly Changing Dimension.
* Implemented a **Caging System** used to cage the cheques, credit cards received for the donations/Membership sold. This system scanned the cheques and remainders received from donors and matched to the sales and help in finding the duplicate and invalid cheques with various checks and balances. This system not only reduced the manpower but also eradicated the problem of missing or duplicate cheques. The output of the system was tallied Bank Deposit Report created in SSRS.
* Responsible for timely preparation and uploading of client specific **donor list in the dialer** for regular calling by Call Centres. This involved **porting of data** received from clients in Excel/CSV format to SQL Server. Validating the data and doing phone lookups for missing phones. Writing custom stored procedures for **tumbling the data** and segmenting it as instructed. Executing the necessary **kills on the data** and forwarding the counts to the user and upload the household data together with gift History into dialer.

**Technical Environment**

* SQL Server 2008, SSRS, SSIS, Visual Foxpro.
* Created triggers, table valued functions, stored procedures and SSIS packages.

**Questrade Inc. Toronto, Canada**

**Reporting Analyst**

**March 2011- August 2011**

Responsible for reporting and analytics capabilities by examining and evaluating purpose and content of business reports to develop new or improve existing format, usages, and report controls using SSIS and SSRS and MDX queries in SQL Server 2008 Data warehouse environment.

* Created SSIS package and scheduled it for importing data from **Sybase Server (OLTP)** into **Staging** and then into **SQL Server Data Warehouse** into Fact and Dimension tables.
* Created weekly, monthly, quarterly and yearly reports and scheduled it for delivery by email or stored to hard disk as per the user request.
* Analysed and monitored Log files of SSIS packages for data transfers and initiated timely actions in case of any disruption in data transfer.
* Captured data from various sources including text, excel, ftp and data base and combined them with incremental data loads and translated them into Fact and Dimension Tables and presented them in reports timely.
* Developed **VB.Net Scripts** for **Script tasks and components**, meant for transferring data from Sybase using stored procedures, Excel Macros & Power pivot using multiple Excel Files and Text Files having complex Validations with respective error handling in place.

Created Asset exposure report using the matrix template in SSRS, one of the main features of the **matrix report** is the calculation of project-to-date totals of equity, Loan value and % Concentration Industry and Industrial category wise and depicts the same using charts. Other useful reports include velocity reports showing average time taken for Account application processing, Document processing report showing the average documents processed individually on daily basis.

**Technical Environment**

* SQL Server 2008, SSRS, SSIS, SSAS, Sybase, Power Pivot, Excel Macros.
* Created triggers, table valued functions, stored procedures, deployment scripts and SSIS packages.

**Department of National Defence - Heavy Alloy Penetrator Factory, India**

**Team Lead – Architect**

**1994-2009**

As a Team Leader I has been involved complete development life cycle of the development and implementation Production Planning and Control Project besides guiding 2 Programmer and 3 Junior Programmers. Some of the major projects implemented by me are

Developed and implemented **Attendance Recording System**. This system was designed to capture data files generated while punching in/out from Attendance Recording System and update the databases for Informix and SQL Server simultaneously serving as input data for generation of Payroll, Leave Maintenance, Late Attendance and several MIS Reports. The entire system, including reporting, was designed in **SQL Server** with a separate database as well as ETL (Extract, Transform, & Load) processes using **SSIS and SSRS**.

Developed and implemented **Integrated Product Costing System**. This system design involved exploding the Bill of Materials for each product and components, process data form Warrants, Inventory, Orders and Production Tables to arrive at the Production Cost of each and every products and respective components. All these data both input and output data is downloaded according to predefined structure specified by head office in flat files and FTP to Head Office at Kolkatta and uploaded at central server to enable Integrated Product Costing of all Factories. The entire system, including reporting, was designed in **Informix Server** with a separate database as well as ETL (Extract, Transform, & Load) processes using **Shell Script and FTP**.

**Technical Environment**

* Informix 7, Linux & Unix, SQL Server 2005, 2008, SSRS, SSIS, COBOL, Informix 4gls, VB, JSP, Java Script, VB.NET, Eclipse
* Created triggers, table valued functions, stored procedures, deployment scripts, SSIS packages, Shell Scripts, Coding using Java script, VB, Informix 4gls,Foxpro and COBOL.

# EDUCATION

Bharathidasan University

**Diploma, Computer Science and Applications**

**Bachelor of Commerce**