# SHUBHANSHU KULSHRESTHA

https://shubhportfolio.herokuapp.com/

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## SUMMARY

Diligent data professional with 6+ years of experience in database management, data warehousing, reporting & data analytics. Proficient with various data engineering tools and platform for driving business solutions. Willing to relocate.

## EDUCATION

**M.Sc. in Computer Science**
University of Manitoba, Winnipeg, MB
Sept 2012 - April 2014

**Bachelor of Engineering (Information Technology)**
Sagar Institute of Research Technology & Science, Bhopal, India
Sept 2007 - July 2011

**Continuing Education: (via Coursera.com)**
- Essential Design Principles for Tableau       - University of California, Davis- September 2018
- Fundamentals of Visualization with Tableau - University of California, Davis- March 2018

## TECHNICAL SKILLS

**Database Management Systems:** SQL Server 2012,2014,2019, PostgreSQL
**NO-SQL:** Apache Casandra
**Cloud Data Warehouse:** AWS Redshift
**Data Modelling Tool:** Microsoft Visio
**Reporting Tool:** SQL Server Reporting Service (SSRS)
**ETL Tool:** SQL Server Integration Service (SSIS)
**Big Data**: Knowledge of Hadoop, HDFS, MapReduce, Pig, Tez, Apache spark, Ambari, Yarn
**Data Visualization:** Tableau
**Programming Language:** C#, SQL, TSQL, Python
**IDE:** Visual Studio, SQL Server Management Studio, Pycharm, Jupyter
**Version Control:** Git, Bitbucket
**AWS Services:** S3, EC2, IAM, CloudWatch
**Agile Tool**: Jira

## PROFESSIONAL EXPERIENCE

*People Corporation*                                                                                          Winnipeg, Canada
**Report and Database Administrator**                                                                 April 2014 - Current
**Department**-Billing and Data Operations

- **Reporting**
  o Lead Billing & Data Operations team on all database, reporting & data management projects.
  o Worked with leading Canadian insurance companies to provide member experience and remittance reports.
  o Expertise in developing ad-hoc & automated parameterized, crosstab & drill down reports using SSRS.
  o Developed reports for underwriting team to analyze the group insurance premiums and claims for over 500 clients.
  o Developed reports for performance and workload analysis of client service team using **SSRS subscriptions.**
  o Built and manage complex queries, stored procedures, and views for **SSRS reports** using SQL and T-SQL
  o Manage user access for all reports through the Reporting Manager.
- **Data Analysis- Tableau/Microsoft Excel**
  o Created insightful dashboards for Billing Manager to analyze monthly claims trend using Tableau.
  o Created dashboard for management to analyze the growth of new Digital Health products serving over 30K members.
  o Design scatter plot to detect any outlier clients in the billing data set using Tableau.

- o Designed a dashboard for Billing Manager to analyze monthly claims data received from insurance carriers.
- o Analyzed billing data in excel using VLOOKUP's and pivot tables to drive insights and interpret trends.
- **Data Modelling / Migration**
  - o Developed the strategy to migrate data from legacy Group Insurance systems to a new system.
  - o Collaborated with data architects to develop the physical and logical data models
  - o Designed data models for multiple source and target systems using Microsoft Visio.
  - o Designed normalized staging databases for source and target systems in SQL Server 2014.
  - o Developed scripts and ETL packages to populate staging databases using SSIS.
  - o Developed SQL stored procedures for data transformation and conversion to achieve.
  - o Created data mapping documents to identify key differences between source and destination system.
  - o Implemented audit reports to avoid any data leaks during the whole data migration process.
  - o Interacted with various business and technical teams to understand the source and target system.
- **ETL and System Integration**
  - o Implemented end-to-end **ETL solution using SSIS** to manage data loading to **OLAP** databases
  - o Experience with scheduling daily data loads using SSIS and **SQL Server Agent Jobs**
  - o Extract and load claims data into data warehouse using **SSIS and SQL Server** for claims tracking report
  - o Created complex **data and control flows in SSIS** to integrate multiple data sources (billing & accounting system) for operational reports
  - o Experience with **SSIS** to extract information from various file types (CSV, Excel) and load into data warehouse
  - o Strong understanding of dimensional data modeling and schemas (**star & snowflake schema**)
  - o Developed a desktop application to integrate the claims system with accounting system using .NET, SSIS and SQL Server
- **Database Administration and Optimization**
  - o Provided second-tier support to IT team to all the database administration issues
  - o Monitored query performance using Activity Monitor on SQL Server Management Studio for optimal speed and efficiency to prevent resource bottleneck
  - o Optimized data retrieval from product databases by creating indexes in SQL Server

*Flairsoft Consulting Group*                                                                                                Bhopal, India
**SQL Server / SSRS Developer**                                                                             Aug 2011 - May 2012
- o Created and managed SQL objects such as views, procedure, table & functions using SSMS
- o Designed SQL script to automatically create data dictionary using T-SQL
- o Implemented database backup policy and monitored it to maintain uniform workload
- o Optimized data retrieval from product databases by creating indexes in SQL Server
- o Built and maintained queries, stored procedures, tables and views, used for SQL Server Reporting Services (SSRS)

## AWARDS AND CERTIFICATION

- Awarded Best Employee for *Customer Service Excellence* in 2017 for going extra mile in serving client service team
- Successfully completed *Student Leadership Development Program*, with opportunity to organize and present a lecture on Team Work at Student Leadership Conference 2014
- International Graduate Student Entrance Scholarship by University of Manitoba, September 2012