FALGUN PATEL

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Detail-Oriented, innovative and reliable Data Architect and Analytics professional with a certificate in Data Science and Visualization from the University of Toronto (School of Continuous Studies). Over 10 Years of experience in overseeing and contributing to key systems development, implementation and support of critical business operations. Finds great satisfaction in extracting insights from data that inform decision-making and drive growth. Well versed in presenting to executive staff and driving cross-functional collaboration across varied organizational subcultures, and global teams.

SUMMARY OF SKILLS

RDBMS	:	MS SQL Server (2005-2017), MS Azure, MongoDB, Postgres, MySQL
SQL Tools	:	SSAS, SSRS, SSIS, SSMS
Development Tools	:	Visual Studio, Team Foundation Server, VS Code, Git
Data Analysis Technologies	:	Python (NumPy, Pandas, PySpark, Scala, Matplotlib), Flask, R
Data Visualization Tools	:	Tableau, Power BI, D3.js, Leaflet.js
Machine Learning Tools	:	SciKit Learn
Office Tools	:	Microsoft Word, Excel, Power Point, Visio, Project
Web Development	:	HTML, CSS, VB Script, JavaScript
Programming Language	:	C#, Visual Basic

PROFESSIONAL EXPERIENCE

Pearl Technologies Inc.   **DW Data Architect/DBA**   **Oct 2019 – Till Date**

- Designed Architecture for Driver Performance KPIs

  Driver Performance KPIs include, Speeding, Ticketing and Accidents and Routes preferences
- Developed ETL Process for Driver Performance Indicators from various Data Sources
- Assisting in DBA Activities including database maintenance, production/test application releases, performance tuning, backup and recovery.
- Setup SQL Replication Server for Report Development, Upgraded Production Application Server with minimal downtime
- Collaborate closely with IT teams in the installation, optimization, upgrade, and maintenance of SQL databases and servers.
- Develop and implemented user security policy and development standard

Capgemini Technologies US   **SQL Developer**   **Apr 2019 – Sep 2019**

- Worked with Capgemini Client for Development and integration of Cetaris Application Data to Client's Enterprise application.
- Created roadmap for the data integrity, governance and reporting.
- Developed Client Specific KPIs and Reports for Business Analysis needs using SSRS.
- Documented Cetaris Data Migration Architecture for Enterprise Application Integration

ACTRA National   **Data Architect/DBA**   **Jul 2018 – Mar 2019**

- Developed Singer Royalty Data Integration Solution
- Designed database Architecture for Singer Royalty Program
- Developed high performance T-SQL, Store Procedures, Views and functions for Large Data Set and front-end applications.
- Provides oversight and expertise to Application Architects and Developers in database best practices, SQL coding and tuning, and deployment of SQL, stored procedures and/or functions.
- Developing high-quality data integrations, reports and data analytic that delivers user needs and wants, meets specifications, is free of defects, and has optimal performance while setting/adhering to corporate data standards and data eco-system principles.
- Actively promote and participate in the understanding, planning and development of business intelligence needs and digital product strategies to assure the best coherence between legacy systems, current & future objectives, digital services offerings and robust development of ACTRA's SaaS based digital platform.

Cetaris Inc.	**SQL DBA/Developer**	**Aug 2011 – June 2018**

- Work with programming team on system development, implementation, testing and trouble shooting of systems.
- Manage and execute capacity planning, performance tuning, troubleshooting and optimization of the databases
- Perform pro-active analysis of database server and created trigger (e.g., disk utilization, system load.), to predict overloads or failures and correct these problems ahead of time
- Installation of new servers and upgrading existing server instances as required, Administration and Maintenance of SQL Server Instances.
- Managing storage environments for SQL data, logs and backups including optimization and growth statistics
- Performing day to day operations like database upgrade, applying database change logs to various customer sites, Maintaining Schedule Jobs, Backup and restore databases.
- Documenting technical design templates, provided Security guidelines and considerations and Database environment

Projects

Driver Performance KPIs

Project developed at Pearl Technologies for Charger Logistics for analysis of Driver Performance KPIs based on Speeding, Ticketing and Accidents and Routes preferences. Data Extracted from various application database using SSIS, Python and loaded in Data warehouse.

Technologies : Python, SSIS, HTML/CSS, Java Script, SQL Server

Vehicle Collisions in Canada

Motivation behind the project came from Motor Vehicle Insurance cost in Canada. As Insurance cost is associated with accidents, I decided to analyse the Collision and found Data from National Collision Database from Canada Open Data.

Developed various graphical visualization like Collision with various factors like Age Group, Gender, Time, Road Condition, Weather Condition, Gender and Age Group.

Technologies : Pandas, NumPy, Matplotlib

Toronto Major Crime Analysis

Toronto Major Crime indicator (MCI) that contains all crime records with crime location under police station jurisdiction. Using different crime indicators from various localities developed visualization of charts and graphs.

Technologies : Pandas, PostgreSQL, Flask API, HTML/CSS, Java Script, D3.js, Leaflet.js, Plotly.js

COVID-19 effect on Economy

Took current hot topic of discussion for my project for analysis of COVID-19 effect on worldwide economy. Extracted COVID-19 data and various market index data from yahoo finance. Developed for various analysis of COVID – 19 and Economy.

Technologies : Pandas, D3.js, NumPy, Matplotlib, HTML/CSS, Java Script.

Education

2020	Data Science and Analysis Bootcamp Certificate	University of Toronto (SCS), Toronto
2001	M. Sc. (Information Science)	Sardar Patel University, Gujarat, India
1999	B. Sc. (Computer Science)	Sardar Patel University, Gujarat, India

Certifications

ITIL V3 Foundation	Registration ID: 259808405	
Scrum Master Accredited Certification	Certification Number:	72961463079322
MCSA (SQL Server 2012/2014)	Certification Number:	F369-9536
MCP (Programming in HTML5 with JavaScript and CSS3)	Certification Number:	F582-5631
MCSE (Data Management and Analytics)	Certification Number:	F806-9081

Contact Me :

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