SUNIL SHARMA

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***SUMMARY:***

Senior Data Engineer with 17+ years of experience in building data intensive applications, tackling challenging architectural and scalability problems, collecting and storing huge data in the investment banking environment.

***EDUCATION:***

Master, Computer Science July 2002 - June 2005

***WORK EXPERIENCE:***

**Morgan Stanley Montreal, Canada**

***Vice President - Data Engineering* July 2012 - Present**

* Co-Lead the design and implementation of data quality platform for data governance. This system includes an OLTP database for data quality metadata repository, Angular based user interface to create data quality rules, Java engine to perform data quality checks on thousands of databases/financial reference data sets/APIs, Python/Spark based batch and streaming pipelines to process and ingest data into data warehouse for Tableau/Splunk based dashboards
* Worked in Enterprise Infrastructure team as lead engineer to build DBaaS (database as a service) platform for 10000+ developers. Which includes providing cloud style on-demand database provisioning system with monitoring, replication, change management, backups, access control and several other self-service features. Databases in scopes are Db2, Sybase, Greenplum, MSSQL Server and PostgreSQL
* Customized and deployed several vendor products like Guardium, AppDynamics, GBDI etc in the environment. Used IBM product Guardium for database security and threat detection. Developed ETL pipelines in python to process and load terabytes of Guardium data into Greenplum data warehouse for reporting and anomaly detection using AI/ML.
* Built RESTful APIs in flask to provide the datasets to users and downstream system.
* Technical lead for a highly performing agile data engineering team of 10 members.
* Developed ETL and streaming systems using PySpark and Kafka to replace Informatica workflows.
* Moving the DataMart to snowflake and moving batch pipelines to azure cloud(Azure data factory/data flow).

**Nomura Mumbai**

***Data Architect* May 2010 - July 2012**

* Regional lead for database L3 operations and engineering team for Db2/Sybase and MSSQL Server managing few thousand databases in DB2 and MSSQL Server. Built self-service, automation tools in Python/Perl for complete database life cycle - provisioning, backups, maintenance, performance tuning, monitoring, capacity management and decommissioning.
* Supported mission critical production databases of large high-profile global investment banking systems. This includes designing and building databases, data modeling, performance tuning.
* Expertise in database performance tuning using database configuration changes, Query plans, query optimization, indexing etc.
* Bidirectional replication setup across three regions using IBM MQ queues. Designed and implemented HA/DR solutions for databases in the plant.

**IBM Gurgaon**

***Database Specialist* July 2009 - May 2010**

* Worked as SQL developer to design high volume transactions databases, data modeling, write SQL queries, stored procs, triggers, views.
* Build entire database platform on DB2 from scratch.
* Migration of several databases from MSSQLserver to IBM DB2 LUW.
* Query optimization, Performance Tuning, HA/DR, Replication setup,

**TCS Mumbai**

***DBA/Database Developer* Sep 2005 - July 2009**

* Sybase, MSSQL DBA/SQL developer
* Developed a sales volume prediction system using Sybase T-SQL, PowerBuilder and MS Excel macros.

***SKILLS:***

Programming: Python, Perl, Spark, Bash, Ksh, PowerShell

Databases: Db2, MSSQL Server, Greenplum, Postgres, Snowflake, HADR, Query Optimization/Tuning,

OS: Linux, Windows

Tools: Kafka, Airflow, MQ, Zookeeper, Hadoop, Splunk, AppDynamics, Tableau, Docker

Security tools: IBM Guardium, GBDI, Jsonar

Devops: Git, Jenkins, CI/CD, Sonar, Agile methodologies

Cloud: Various Aws and Azure offerings i.e ADLS, Azure Data Factory, Databricks, Snowflake, S3 etc