Brahmanand Shukla

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About myself

I have 15+ years experience as SQL,SSIS and SSAS developer and can design a data model from scratch for relational databases. I have expertise in developing complex SSIS packages, SSAS cubes and ADF pipelines, converting business requirements in T-SQL in most optimized way. I have extensive experience in boosting the performance of SQL Server database and TSQL code.

I’ve been a successful SQL developer and Project lead. I’ve developed and supported applications in VB, C#, ASP.Net, VB.Net, Crystal Reports, etc. I’ve delivered large-scale Data Migration projects. I’ve got exposure to other databases too such as Oracle, PostgreSQL, MySQL, and Apache Cassandra, etc. I’m also a domain expert of Wealth Management, Asset Management, Portfolio Management, Mutual Funds, and Capital Market domains.

Experience and accomplishments

**SQL Lead@ CoreCard India (Oct 2020 – till date)**

Lead **SQL Server**, **SSIS and SSAS and ADF** Developer responsible for design, development, performance tuning, and support of SQL Database and ETL processes to cater high volume data migration and data replication.

Accomplishments

1. Designed and developed an ETL solution for our client Core Card for Jazz project. The ETL was developed in SSIS,SSAS and ADF to process extremely huge amount of data. The ETL processes 1000‘s of the flat files amounting to approx. 5 TB’s in size in totality. The ETL solution so far is working smoothly without any hiccups.
2. Designed and developed a Data Replication solution for our client Core Card for Plat project to replicate the TB’s of data across several servers to implement horizontal scaling to achieve high availability and a boost in performance.

**BI Developer @ Pelican.ai (Feb 2020 – Sep 2020)**

BI Developer responsible for the development of SSIS packages,SSAS cubes,procedures, functions, view etc. as per the requirement, and performance tuning of the existing objects.

**Database Developer @ Motilal Oswal Financial Serviced Ltd. (Jul 2017 – Jan 2020)**

Accomplishments

1. Designed the common Database Architecture for integration with messaging apps for Transaction and Servicing. Unique design helped in multiple ways including achieving 99.99% uptime, zero error due to concurrency, have observed around up to 30K requests in 14 hours with an average 2K requests per hour, more than 120K requests processed in 5 months with zero error and with 100% success rate and zero deadlocks. The architecture also facilitates easy data archival mechanism, quick development of CR’s including adding additional step / sub-steps in the communication with zero change in the storage architecture.
2. Merged 2 production database servers to one and saved 4 hours of BOD processing and server cost of one production physical and one DR virtual server and MS SQL Licensing cost of both the servers.
3. Designed the solution for the Monthly MIS for the PMS clients. Monthly MIS is regulatory requirement and any delay or error can attract the penalty. This was indeed a painful activity every month for both IT and Business. We used to struggle from 05th of every month. Due to this Customer Queries were piling up every month. Post implementation of the solution there were near to zero customer queries and now the activity which were running for the days is getting completed within 2 hours.
4. Designed the Database and wrote Business Logic for Amortization of Revenue Sharing with Distributors. This has impact on PL and hence both money and compliance critical. On an average 3000 contributions to be amortized every month along with the withdrawals and impact of change of the amortization period on the existing contributions with balance. This will be like savior to the PMS Business. Earlier they were doing it in Microsoft Excel which was prone to error and involves high level of risk. Amortization Excel file have grown very large to open and were taking 10 minutes to open on 8 GB RAM and 4 core system. Even a simple change occasionally causes user to wait for minutes and sometime it crashes.
5. Implemented the data security by developing the data API’s with limited and restricted access.
6. Saved days of recurring manual efforts of multiple users by automating multiple manual activities. Automation was done using SSIS, SSRS, SQL Server and DB Mail.

**Database Developer @ Cognizant (Jul 2016 – Jul 2017)**

Accomplishments

1. Got opportunity to work with IIot (Industrial Internet of Things domain). This was balance of both High Read & High Write Database. Approx. Min 20K transactions per second write volume. Initial implementation was in PostgreSQL and Neo4J. Redesigned the solution in MS SQL Server with unique design to cater such a high volume.
2. Got opportunity to explore Apache Cassandra a Distributed Database Management System with Peer to Peer Architecture for HA & DR.
3. Led the Database team in Cognizant for Petsmart. Database was of size in TB’s and made sure to have 99.99% uptime.

**Software Developer @ Miles Software (Apr 2008 – Jul 2016)**

Accomplishments

1. Redesigned the database processing of the Wealth Management & Retail Product to cater high volume of MF RTA data.
2. Optimized the NAV Generation process (Calculating the Net Worth / AUM of the Wealth clients) and achieved performance boost up to 2000% when generated in batch.
3. Redesigned the Realized Gain/Loss (FIFO and WAG) calculation logic for performance optimization and successfully accomplished it.
4. Part of the core team who migrated the inline code from VB 6.0 to web based application with technology stack ASP.Net MVC, .Net, JQuery, MS SQL Server. Led the database development.

Education and qualification

1. MCP, MCSA in SQL 2016 Database Development from Microsoft in 2017
2. Master of Science (M.Sc Computer Science) from University of Mumbai between 2011 – 2013
3. Bachelor of Science (B.Sc Computer Science) from University of Mumbai between 2004 – 2007

My technical skills

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| **Database and Data Analytics Technologies** | Microsoft SQL Server, PostgreSQL, Apache Cassandra, Visual Studio, SQL Server Data Tools (SSDT), Crystal Report / Business Objects |
| **Database Modelling Tools** | CA Erwin, SQL Power Architect, KDM, Database Diagram, Visual Studio |
| **Database Scheduler Tools** | SQL Server Agent, SQL Jobs, Active Batch |
| **Database Debugging, Monitoring, Heath check and Maintenance Tools** | SQL Server Profiler, DMV (Dynamic Management Views), Database Compression, Database Backup, Database Restore, SQL Sentry, Solarwinds DPA, Third Party Tools, Shrink Database/Files |
| **Database Optimization** | Database Tuning Wizard, Execution Plan, STATISTICS IO, STATISTICS TIME, Index, Columnstore Index, Statistics, Index Rebuild, Index Reorganize, Table Partitioning, Table Compression |
| **High Availability (HA) and Disaster Recovery (DR)** | Log shipping, Mirroring, Always On |
| **Database Audit Log** | Temporal Tables, Custom Audit Log, Change Tracking, Change Data Capture |
| **Data Security** | Transparent Data Encryption (TDE), Dynamic Data Masking, Row Level Security, Always Encrypted |
| **Database Development Tools & Features** | SQL Server Management Studio, T-SQL, Stored Procedure, Function, View, Trigger, SSIS,SSAS, SSRS, Business Intelligence (BI), Windowing Function, Analytical Functions, Ranking Functions, Business Logic, Common Table Expression (CTE), WHILE LOOP, Cursor, Policy Based Management, Synonyms, Linked Server, JSON, XML, SQL Server Data Tools (SSDT), DTS |
| **Other Technologies & Tools** | C#, VB 6.0, ASP.Net, VB.Net, Visual Studios, TFS, JIRA, VSS |

Other information

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| **Current Location** | Mumbai, India |
| **Permanent Address** | B/201, Venus Tower CHSL, Geeta Nagar Phase 2, Behind Sai Petrol Pump, Mira Road (East), Thane - 401107, Maharashtra, India |
| **Languages known** | English, Hindi, Marathi and Gujrati |
| **Date of Birth** | 02-Jul-1987 |