

Personal Profile

Data/Software Engineer with a demonstrated experience on large-scale (Big) data solutions including databases (SQL/No-SQL) and ETL/Data pipelines using cloud services. Solid understanding of fundamental Computer Science concepts. Familiar with requirement gathering and SDLC. Hands-on programming experience in multi-language such as Python, Java, SQL, PowerShell. Excellent problem-solving skills and software engineering habits, including peer code reviews, unit testing, etc.

Core Skills

- OLTP/OLAP/NoSQL
- ETL/ELT/Data Modeling
- Data Pre-processing
- MS Azure/Spark
- DevOps/GIT
- PowerBI/Tableau
- Java/C#/Python
- Powershell/R/Scala
- Agile/Scrum/Spiral

Career Summary

2019 – present **Software developer**
Microsoft

Role outline

Work as software engineer under Office IP antispam team. Response for maintaining and upgrading the ETL/ELT data pipeline, ADF jobs, and components in ADF and ADLS with Cosmos Scope and Kusto. As well as generate ad-hoc visuals with different tools based on different requirements.

Achievements

- Migrated Cosmos uploader/downloader with ScopeSDK, TSQL and PowerShell from old JavaScriptlogic. Equipped with alert and pipeline monitor to enhance the durability.
- Troubleshoot issues, errors in ETL services. Generate probes, monitors, alerts for different components and services with C# ,Scope language and PowerShell.
- Built and maintained a big data platform (ADF/ADLS) in Cosmos Scope script as per industry standards and best practices.
- Optimized data pipeline by rewriting new logic and SQL schema, gained both performance and service durability. Reduced up to 20% storage cost with archiving and re-indexing stale data as well as increase the query performance.
- Performed DB admin activities on the multiple DB Servers. Optimized and tuned slow running queries up to 30% by troubleshooting issues with by using SQLServer Profiler and SQLServer Tuning Adviser. Improved the efficiency of the heavy-lift jobs/queries.
- Engaged closely with cross-functional teams to understand requirements, created and automated the pipeline of reports/dashboards with pull/push triggers.

2018 – 2019 **BI developer**
Conagra Brands Inc.

Role outline

Serve under Cost to serve team. Generated annual reports from sketch. Implemented data modeling, user validation and dynamic filters based on stakeholders' requirements.

Achievements

- Designed and implemented the whole ETL (Extract, Transform, Load) data process with various transactions within SSIS packages to implement business rules and logic.

- Generated PowerBI reports, dashboards with Star schema. Implemented complex requirements in PowerBI by using DAX and M language.
- Reduced refresh waiting time by using PowerBI API in PowerShell scripts, deployed, automated the scripts on CtrlM Servers.
- Created customized visuals with R libraries. Embedded the PowerBI visuals within Sales-force homepage with PowerBI-JavaScriptlibraries.
- Accumulated agile Product Management experience - a full gamut of creating stories, generated PowerBI reports and dashboards, working through user acceptance testing (UAT).
- Hold scrum meetings as scrum master. Wrote various documents such as data mapping document, work detail descriptions for KT sessions and future development.

2013 – 2015 SQL BI developer
KSDHC Inc.

Role outline

As a SQL BI engineer, utilize the MS BI stack (SSIS/SSRS/SSAS) to perform ETL process with big scale of data. Includes data cleansing, data labeling and aggregation, etc. Generate different visuals with Microsoft SSRS.

Achievements

- Created logical and physical data models based on the requirements utilizing Erwin and Navicat.
- Improved the performance of the official website by optimizing slowly running queries, utilized indexes, partitions and deadlock monitor via SQL Profiler and DTA.
- Normalized database tables to avoid redundancy and DML anomalies.
- Developed complex SQL scripts and procedures for data profiling and auditing purposes. Combined C# logic in SSIS packages.
- Utilized Microsoft SSIS/SSAS/SSRS to handle ETL logic, create ad-hoc reports with both tabular model and cube model.
- Developed various Dashboards and Stories using advanced Tableau features including calculated fields, parameters, table calculations, row-level security, R integration and dashboard actions while dealing with Cloud data in SSRS.

Education

2015 - 2018 Oregon State University (Master degree in computer science)
2010 - 2014 Liaoning Normal University (Bachelor degree in computer science and technology)

Certificates

Microsoft: Azure Database Administrator Associate (Since 2019)
Microsoft: Data Analyst Associate (Since 2019)