Zac Yang
Data Engineer Software Engineer

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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
- MS Azure
- Java/C#/Python

- ETL/ELT/Data Modeling
- Spark
- Powershell/R/Scala

- PowerBI/Tableau
- DevOps/GIT
- 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 obs, and components in ADF and ADLS. As well as generate ad-hoc visuals with different tools based on different requirements.

Achievements

- Troubleshoot issues, errors in ETL services. Generate probes, monitors, alerts for different ETL components and services with C# and PowerShell.

- Built and maintained a big data platform(ADF/ADLS) as per industry standards and best practices.

- Performed DB admin activities on the multiple DB Servers. Optimized and tuned slow running queries. Improved the efficiency of the heavy-lift jobs/queries.

- Collaborated closely with cross-functional teams,designed efficient data models/structures to support the organization's data and reporting needs on different platforms.

- Engaged with stakeholders to understand requirements, designed and automated the pipeline of reports/dashboards with pull/push triggers.

- Migrated old ETL jobs and scripts, pipelines and visuals from on premise environments to the cloud and big data platform.

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.

- Achieved the data refreshment from SAP HANA with 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-javascript libraries.

- 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 perforance of the offical website by optiming 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)