

### Personal Profile

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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

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

### Career Summary

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**2019 – present**      **Software developer**  
**Microsoft**

#### *Role outline*

Work as a 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, T-SQL, and PowerShell from old JScript logic. Equipped with alert and pipeline monitor to enhance 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.
- Performed DB admin activities on the multiple DB Servers. 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.
- Rescued customers' sensitive data from old DB backup files online. Praised by the managers.
- Implemented ad-hoc data status monitors and dashboards with PowerBI and Lens platform. Deliver reports to end users weekly and monthly.

**2018 – 2019**      **Data Engineer**  
**Conagra Brands Inc.**

#### *Role outline*

Serve under Cost to serve team. Generated annual reports from the 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 a 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 processes with a 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

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

## Certificates

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<b>Microsoft:</b>	<b>Azure Database Administrator Associate</b> (Since 2019)
<b>Microsoft:</b>	<b>Data Analyst Associate</b> (Since 2019)