# **Personal Profile**

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

# **Core Skills**

- OLTP/OLAP
- Azure ADF/ADL
- AWS S3/Glue/Lambda/SNS
- ETL/ELT/Data Modeling
- Java/Python
- PySpark/boto3

- Data Pre-processing
- PowerBI/Tableau
- Agile/Scrum/Spiral

# **Career Summary**

## 2021 – present Data Engineer Capital Group

Role outline

Act as a data engineer in the Investment Group. Respose for all ETL realted process on the AWS platform.

### Achievements

- Generated Glue jobs by analyzing data from different sources. Such as third-party API, files in S3 bucket. Stream in Kinesis firehose and Dynamo DB.
- Utilized Glue jobs and Lambda functions to handle data processing logics with different kinds of triggers such as SQS and events.
- Developed and deployed Glue jobs with AWS CDK which extract CloudTrail log into parquet files and dump them into Athena DB automatically.
- Troubleshoot the internal data platform issues with the DaaS team. Some improvements as adding datatypes for completeness constraints and changing the logic of ingestion datasets to support multi datasets under the same zip files in the same S3 bucket.

# 2019 – 2021 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 varieous 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. Generated 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. Delieverd 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**

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

### **Certificates**

Microsoft: Azure Database Administrator Associate (Since 2019)

Microsoft: Data Analyst Associate (Since 2019)