Alex Ilhan

Microsoft Fabric & Data Engineer
GC Holder

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Summary

Skilled and results-oriented Microsoft Fabric & Data Engineer boasting 8 years of hands-on experience in devising, implementing, and refining data solutions within the Microsoft Azure Fabric ecosystem. Proficient in intricate data engineering techniques, intricate architecture design, and strategic deployment approaches. Demonstrated ability to harness advanced analytics to drive informed business decisions and streamline operational processes effectively.

Key Skills

- Hands on Experience with SQL, SSIS, ADF, SSRS, Power BI, SSAS and other Microsoft and Azure Cloud Service tools;
- Expertise in writing T-SQL Queries, creating Complex Stored Procedures, Triggers, User-defined functions and different Database Objects such as tables, Constraints (Primary key, Foreign Key, Unique, Default) and Indexes. Experience in developing and maintaining the backend databases of software applications using T-SQL Programming (DDL, DML, and DCL);
- Skillful in report development using SSRS/Power BI and creating various types of reports and dashboards with drill down/through, parameterized, cascading, conditional, slice and dice, bookmark, ad-hoc and sub reports features;
- High-level experience in writing DAX in Power BI and Expert in fine tuning the reports;
- Experience in Query Optimization and performance tuning of slow running query for better performance using SQL Profiler, Index Tuning Wizard, Database Tuning Advisor, Query Execution Plans and Performance Analyzer;
- Proficient in Extracting, Transformation and Loading (ETL) using various tools like export/import data and SQL Server Integration services. Created, Developed, Tested and Deployed Packages into production servers by creating package configurations;
- Good understanding of Microsoft Azure ecosystem such as: ADF V2, Azure SQL Server, Azure SQL IaaS/SaaS/PaaS, Azure SQL DW, Azure Blob and etc.;
- Excellent analytical, communication and interpersonal skills. Proficient in technical writing and presentations and a good team player;
- Providing guidance, training, and problem-solving assistance to other team members, and open to receiving similar guidance, training, and assistance from others.

T-SQL

SSRS/Power BI

ETL/SSIS/ADF

Performance Tuning

Data Warehousing

DataBricks

API Management

Data Lake Storage

Azure Synapse

SSRS

Education

Masters in
North American University |
Stafford, TX
Bachelors in
Kocaeli University | Kocaeli, Turkey

Experience

ADF| Databricks| Synapse| Fabrics | Power BI Developer
Keller Williams Realty. | Austin, TX   **Jan 2021 – Present**

- As a key member of BI team, delivered the best results to the development needs, accomplished successful outcomes by working with T-SQL, Power BI, SSAS, SSRS, SSIS, ADF2, and other Azure Cloud tools;
- Proficient in crafting and managing visually appealing reports and dashboards using Power BI, with a focus on integrating data from various sources such as Snowflake, relational databases, and external systems.
- Skilled in utilizing Data Analysis Expressions (DAX) to create complex calculations, measures, and calculated columns within Power BI for precise data analysis and visualization.
- Collaborates closely with business stakeholders to gather requirements and design data models using Tabular Editor, with an emphasis on creating efficient data structures for optimal performance.
- Experienced in using Tableau Server to securely publish and share dashboards within organizations.
- Capable of troubleshooting Tableau workbooks and resolving performance issues to ensure optimal dashboard performance.
- Actively engages in continuous learning, staying updated with the latest features and best practices in Tableau through various online resources and training courses.
- Familiar with machine learning and artificial intelligence as a service (AIaaS), with demonstrated knowledge or involvement in related projects.
- Integrates machine learning model deployment with existing CI/CD pipelines to seamlessly integrate them into the software delivery process.
- Designs and develops custom Prometheus exporters to collect metrics from different services and systems.
- Creates production-grade code to convert machine learning models into services and pipelines for scalable web consumption.
- Possesses advanced proficiency in Microsoft BI technologies, including T-SQL, SQL Server Integration Services (SSIS), and SQL Server Analysis Services (SSAS), with a deep understanding of various Azure services.
- Conducts regular performance analysis and implements proactive measures to identify and address potential bottlenecks within the Dedicated SQL Pool, minimizing downtime and enhancing system reliability.
- Leads data migration projects, ensuring smooth transition to Azure Synapse Analytics Dedicated SQL Pool and uninterrupted business operations.
- Skilled in managing data workflows using Azure Data Factory or SSIS, ensuring smooth ETL processes across systems.
- Designs and executes data integration workflows using Azure DevOps, focusing on tasks related to data extraction, transformation, and loading.
- Establishes and maintains data lineage and documentation to ensure transparency and traceability in data flow across systems.
- Implements continuous improvement initiatives for Synapse Fabrics, incorporating cutting-edge technologies to enhance system performance.
- Actively participates in Agile development team activities for iterative software solution delivery.

Sr BI DEVELOPER (remote)
Harmony Science Academy | Odessa, TX   **Feb 2018 – Dec 2020**

- Actively participated in meetings with different Departments, Managers and End users to capture and document system requirements;
- Vast experience lies in monitoring and improving SQL performance, particularly focusing on boosting reporting data efficiency through optimizing indexes and stored procedures. Proficiently designed T-SQL triggers to maintain uniform data input in the database.
- Skilled in implementing Data Cleansing, Incremental Data Loading, Logging, Event Handling, and Error Handling. Demonstrated expertise in crafting SSIS Packages incorporating various transformations like Pivot, Fuzzy Lookup, Derived Columns, Condition Split, Term Extraction, Aggregate, Execute SQL Task, Data Flow Task, and Execute Package Task.
- Proficiency extends to designing SSIS packages and Azure Data Factory pipelines for Extract, Transform, and Load (ETL) tasks, facilitating seamless data migration from diverse source environments including ERP, CRM, Azure, AWS, and other systems.
- Adept in creating intricate stored procedures, executing tasks, scripting in C# for ETL processes, and maintaining ETL packages for optimal performance.
- Accomplished in SSIS and Azure Data Factory development, offering ETL solutions for integrating data from various sources such as Flat Files (delimited, fixed width), Excel, SQL Server, Raw Files, DB2, Oracle (7.x/8i/9i/10g/11g), SAP, XML files, and SharePoint Lists into the central OLTP database.
- Within Databricks, devised stage tables, data warehouse tables, and views, utilizing stage tables for data transformation and employing the merge operator for incremental loading
- Developed a semantic model to simplify the analysis of business data and relationships by extracting relevant data from Azure Synapse data warehouse using Power BI.
- Assisted the Project Manager in leading multifunctional project teams to implement data conversion strategies and disseminated crucial information to team members.
- Proficient in developing parameterized reports, charts, graphs, linked reports, and drill-down reports using Power BI.
- Designed reports, dashboards, and filters in Power BI, incorporating various chart types, visualizations, and complex calculations for data manipulation.
- Produced user-friendly and accessible reports using interactive sorting and grouping techniques. Created and deployed SSIS packages through the package installation wizard, BIDS Deployment, and Management Studio Import to automate data processes.
- Prepared Parameterized reports, Cross-Tab reports, drill-down reports, Dashboards, and Summary reports using SSRS.

SQL | ETL | SSIS | Power BI Developer
Amgen Inc. | Thousand Oaks, CA   **Apr 2016 – Jan 2018**

- Possess advanced proficiency in TSQL, adeptly creating stored procedures using node methods to import and process XML file data into SQL server tables.
- Developed logic and optimized tables, views, and stored procedures according to business requirements and regulations.
- Streamlined operations by replacing row-by-row processes, eliminating while loops and cursors through the application of TSQL window functions and recursive CTEs.

- Demonstrated extensive expertise in Visual Studio components for Integration Services, encompassing Control Flow, container elements, and tasks.
- Utilized SQL Server Integration Services (SSIS) to extract and load SharePoint Lists and Surveys Data into SQL Server Database.
- Conducted thorough system analysis, design, development, implementation, and testing across projects.
- Automated manual processes using Advanced ETL methods, including extracting data from Smartsheet and loading it into SQL Server using Script tasks and merge statements.
- Constructed complex queries involving joins and sub-queries across multiple databases, providing ongoing support for system-wide replication tasks, including monitoring and issue resolution.
- Extracted data into MS SQL Server Database from various Database Management Systems (DBMS) like Oracle, Power BI, and Teradata using ETL packages.
- Designed and executed SSIS Packages and projects for ETL tasks, transferring existing data into SQL Server from different environments for SSAS cubes.
- Demonstrated a deep understanding of SSIS functionality.
- Managed the import and export of data into MS Access databases and debugged VBA scripts linked to secondary databases.
- Engineered SSIS packages to extract, transform, and load data from Oracle/SAP, Power BI, and SQL Server databases into Data Warehouse.
- Prepared and maintained various documents, including Documentation Roadmaps, Data Models, ETL Execution Plans, Configuration Management Procedures, and Project Plans.
- Possess solid knowledge of dimension and fact tables, skillfully designing Data Marts using the Star schema.