Muhammad Chaudri

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# PROFESSIONAL SUMMARY

**Certified Azure Data Engineer (DP203)**

# Certified Azure Solutions Architect Expert (AZ-305) & Cognos BI

Muhammad Chaudri is a Seasoned Senior Azure Data Engineer with 12+ years of experience specializing in Big Data, Data Warehousing, and Business Intelligence applications within the US Healthcare Insurance Domain. Expertise in architecting and implementing data solutions using cutting-edge technologies, with a strong focus on Big Data and Spark on cloud platforms like Azure. Skilled in optimizing data pipelines, designing scalable architectures, and driving

actionable insights for business stakeholders. Proficient in Microsoft Azure (Azure Data Factory, Azure Databricks), Apache Spark, Python, SQL, and more.

# TECHNICAL SUMMARY

* **Big Data and Cloud platforms/ Azure**

Databricks, Hadoop, Spark, HDFS, ADLS, Azure platforms, CICD, Azure Data Factory, Azure Data Lake, Azure SQL Database, SQL Pool, SQL Serverless, CosmosDB, Using

GitHub

# Data Migration and ETL/ELT

Python, PySpark, SSIS, Azure Data Factory,Performance tuning of sql server queries Stored Procedures. CI/CD pipelines using Github

# Data Science and Machine Learning skills

* Data wrangling using NumPy and Pandas
* Supervised Machine Learning using Scikit Learn
* Natural Language Processing using NLTK and re
* Unsupervised Machine Learning for Clustering and Dimension reduction
* Trouble Shooting and Networking

# Languages

Python, Hive QL, PySpark, T-SQL,Teradata

# RDBMS

SQL Server (2005 to 2017), Query Optimization, Performance Tuning,Teradata

# Data Visualization/ BI tools

SSAS, SSRS, SSIS, Data Warehouse Designing, Data Modelling, Power BI, Tableau, Cognos

# Core Skills

Best Practices , Aggregating Data, Dimensional Modeling, Database Management Systems, Design Solutions, Healthcare Industry, Microsoft Power BI, Company Culture ,Multidimensional Databases, OLAP, Online Analytical Processing, Data Mining, SSRS Reports, Business Analysis,

Product Analysis,Data Infrastructure, Business Analysis, Work with various database systems including SQL Server ,MySQL. Computer Science, Health Care, Project Plans, SSAS, Data Warehouse Design, Conduct Research, Friendly, Interpersonal Skills, Written and Oral Communication Skills

# Work EXPERIENCE

**Senior Azure Data Engineer Nashville TN** May 2015 - Present

# Cigna

* Migrated legacy applications from on-premises to Azure Cloud Platform.
* Utilized Azure Data Factory, T-SQL, Spark SQL, and U-SQL Azure Data Lake Analytics for data
* extraction, transformation, and loading.
* Designed and developed Azure Data Factory Ingestion pipelines for loading data into Azure Data with Long-Term Plan
* Lake Storage.
* Implemented data models in Azure SQL and performed ETL processes using a combination of Azure
* Data Factory, T-SQL, and Spark SQL.
* Developed Spark applications in Databricks using Python for efficient data processing.
* Implemented CI/CD pipelines using Github & Azure DevOps for production deployment.
* Worked with Delta tables in Azure Databricks for implementing SCD Type 1 and Type 2 logic.
* Created stored procedures in Azure SQL DB for audit log mechanisms.
* Worked on complete SDLC which include starting requirement gathering, building logical design
* and implementation with code review unit testing,deployment & maintenance.
* Performance tuning and optimization of the queries in sql/SSIS by analyzing execution plan and statistics.
* Fixing production issues at L3 & L4 level and query slowness in production
* Extracted data from various sources which includes HANA, SQL Server, Hadoop, Excel, and text files.
* Performed data wrangling using Hive and PySpark.
* Performed data analysis tasks on large datasets using Spark and Hadoop ecosystems.
* Created complex queries in SQL Server and HiveQL for data transformation.
* Created custom Hive UDFs in Python and Java to perform custom transformations.

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**Data Engineer** Nov 2014 - Feb 2015

# Ceridian Payroll Minnesota

* Conducted a successful proof of concept for Azure implementation.
* Transformed batch data from various sources using PySpark, including SQL Server, MySQL,
* Developed SQL queries for data extraction and format validation.
* Created T-SQL Stored Procedures, User Defined Functions, and other database objects.
* Utilized SSIS for ETL processes and optimized existing views and stored procedures.
* Performance tuning and optimization of the queries in sql/SSIS by analyzing execution plan and
* statistics.
* Fixing production issues at L3 & L4 level and query slowness in production environment.
* Extracted data from different sources and performed data wrangling using NumPy and pandas packages in Python.
* Extensively used Exploratory Data Analysis techniques to get the statistical measures of the data using Matplotlib and Seaborn in Python.
* Identified the data distribution of the sample data set and simulated it with the help of probability distribution methods to get the statistical inferences from the data set.
* Simulated the hypotheses using bootstrapping and A/B testing.
* Created Machine Learning solutions using supervised and unsupervised ML models using Scikit Learn.
* Used Natural Language Processing for sentiment analysis on twitter data using NLTK and re in Python.
* Performed extensive data analysis on large datasets using Hadoop ecosystem.

**SSIS / SQL Developer** Dec 2012 - Oct 2014

**Microport Memphis, TN**

* Designed Data Warehouse with Star Schema and Snowflake Schema.
* Developed SSIS packages for data extraction, transformation, and loading.
* Scheduled SSIS packages for periodic data feeds from various vendors.
* Created reports using SSRS from OLTP and OLAP data sources.
* Improved the performance of long-running views and stored procedures.
* Worked with SQL Server Integration Services (SSIS) for populating data from diverse sources.

**SQL Developer** Jul 2011 - Dec 2012

**UBS Stamford, CT**

* Developed technical specifications and recommended BI solutions.
* Designed and optimized SQL Server and SSIS projects.
* Implemented package and object-level security for data solutions.
* Scheduled and distributed data solutions using SQL Server and SSIS.
* Provided technical assistance and training to users.

**Cognos Developer** Sep 2010 - Jun 2011

**GlaxoSmithKline, NC**

* Developed the model in Framework Manager for reporting requirements.
* Created complex reports, dashboards, and drill-through reports.
* Worked on data quality reports, shipment cost analysis, and regional reports.
* Implemented role-based security for report access.
* Trained end-users on Cognos Connection, Query Studio, and Analysis Studio.

**Cognos Developer** Mar 2008 - Sep 2010

# Tennessee Valley Authority ,TN

* Developed Metadata Models using Framework Manager for nuclear power plant reporting.
* Created complex and ad-hoc reports using Report Studio and Query Studio.
* Deployed packages and folders across different environments.
* Implemented role-based security for data access.
* Trained end-users on Cognos Connection, Query Studio, and Analysis Studio.

Muhammad Chaudri has a diverse background in working with various technologies, cloud platforms, and industries, showcasing proficiency in designing, implementing, and optimizing data solutions. His extensive experience in both Microsoft and BI technologies positions him as a skilled professional in the field of data engineering and analytics.

# EDUCATION

**Master's In Business Administration (MBA Finance)** Sep 2021 - Jun 2023 University Of Hartford, Hartford Connecticut GPA: 3.64

**Master In Software Engineering (Data science)** Sep 2017 - Jun 2019 Lipscomb University Nashville Tennessee GPA: 3.90

**Bachelor's Degree** Sep 2001 - Jun 2006 Hamdard University Karachi Pakistan

**Certifications**

# Microsoft Certified: Azure Data Engineer Associate DP:203 2024

* **Microsoft Certified Azure Solutions Architect Expert (AZ-305)** 2024
* IBM Certified Designer - Cognos 10 BI Report Author Testing ID 288837891
* IBM Certified Cognos 10 BI Metadata Models (Framework Manager) Testing ID 295741840
* IBM Cognos Certified Administrator - Cognos 10 BI Testing ID 291485556
* IBM Certified Solution Expert - Cognos 10 BI Testing ID 297587022
* IBM Cognos TM1 Developer Testing ID 304555271
* IBM CognosTM1 Administrator Testing ID 315054051