

HAMZA BASHARAT

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PROFESSIONAL SUMMARY

Data Engineer skilled in SQL, MySQL, PostgreSQL, SQL Server (T-SQL), and Python, with experience building ETL/ELT pipelines, Azure data services, data modeling, and Power BI dashboards. Strong in data warehousing, performance-optimized SQL, and end-to-end data workflows. Certified in IBM Data Science Professional Certificate and AWS Data Analytics Specialty Training, with GitHub-hosted projects showcasing real-world data workflows. Proven collaboration and leadership through IEEE membership, academic projects, and volunteer initiatives.

TECHNICAL SKILL SET

Programming & Scripting: Python • SQL • C++ • R • Dart (Flutter)

Databases: MySQL • PostgreSQL • SQL Server (T-SQL)

Data Engineering & Big Data: ETL/ELT Pipelines • Data Modeling • Data Warehousing
Apache Spark • Apache Kafka

Cloud & Platforms: Microsoft Azure (Azure SQL & Azure Data Services)

BI & Analytics: Power BI (Interactive Dashboards, Datasets & Models)

Version Control & Collaboration: Git • GitHub

PROFESSIONAL EXPERIENCE

- Cloud Pacer – Data Engineer Intern | Lahore, Pakistan | Sep 2023 – Nov 2023

Worked on ETL pipelines, data cleaning, and cloud-based data storage solutions to support analytics projects.

- Data Analytics Trainee (AWS Data Analytics Specialty Training) | Remote | 2025

Hands-on training on AWS services with practical projects in cloud-based data engineering.

- Final Year Project – Prep-MUN (Model United Nations Mobile App) | Lahore, Pakistan | Apr 2024 – Feb 2025

Designed and developed a cross-platform mobile app to streamline MUN preparation with study resources and real-time updates.

- Ghulabzai Group – Research Analyst | Lahore, Pakistan | Mar 2025 – Sep 2025

Conducted in-depth market and data analysis, prepared actionable insights and reports, and supported data-driven decision-making across cross-functional teams.

- IBM – Data Science Professional Certificate | Online | 2024

Completed IBM Data Science training, gaining hands-on experience in Python, SQL, data analysis, data visualization, and machine learning. Built practical projects as well.

PROJECTS

- Banks Data – ETL Pipeline

Automated extraction of global bank data, transforming FX values and loading into SQL. Tools: Python, Pandas, SQLite, CSV

- Country-GDP-ETL-Pipeline

Built ETL pipeline for GDP data with PostgreSQL, enabling multi-currency analysis. Tools: Python, Pandas, PostgreSQL, CSV

- IBM Data Science Capstone Project

Recommended business locations with clustering models, achieving 85% accuracy. Tools: Python, Pandas, Scikit-learn,

- FYP – Model United Nations Mobile App (Prep-MUN) Designed an app for MUN preparation.

Tools: Flutter, Firebase, Dart Cross-platform app built with Flutter, improving student prep workflows. Tools: Flutter, Firebase, Dart

- Power-BI-Sales-Dashboard

Created an end-to-end pipeline integrating multiple data sources (SQL Server, Excel, CSV) to Power BI, designing datasets, models, and interactive dashboards for sales insights. Tools: SQL Server, Python, Power BI, Excel, T-SQL

- E-Commerce-Sales-Warehouse

Designed and implemented a data warehouse for e-commerce sales data, integrating MySQL and CSV sources, with automated ETL workflows for reporting and analytics.

Tools: Python, Pandas, MySQL, Airflow, CSV

VOLUNTEER EXPERIENCE

- UCP IEEE Student Branch
- UCP MUN
- UCP VIS Office
- UCP Plantation Drive

EDUCATION

University of Central Punjab, Bachelor of Computer Science | Mar 2021 – Feb 2025

CERTIFICATIONS

- AWS Data Analytics Specialist – NVTTI
- Python Project for Data Engineering – IBM
- Introduction to Data Engineering – IBM
- Databases and SQL for Data Science with Python – IBM
- IBM Data Science Professional Certificate