

AMANDEEP SINGH

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Skills

- Designed ETL workflows using Azure Data Factory and Pyspark for data transformation.
- Processed real-time data with Azure Stream Analytics and Event Hubs efficiently.
- Managed scalable storage and analytics with Azure Data Lake and Snowflake.
- Built Azure Data Pipelines and Synapse solutions for batch and real-time workflows.
- Optimized Azure SQL DB performance, securing data with Azure Key Vault.
- Deployed high-performance data solutions using Databricks, PySpark, and Power BI dashboards.

Certifications

- **Microsoft Certified | Azure Data Engineer Associate (DP 203)** | Mar. 2025 | [Link](#)
- **Microsoft Certified | Azure Data Fundamentals (DP 900)** | Jan. 2025 | [Link](#)

Experience

Hadoop Developer & Data Analyst | Reliance Jio InfoComm Limited | Mumbai, India | Aug. 2019 – Dec. 2021

- Developed Hive tables using HQL to support diverse team use cases.
- Optimized Hive queries, modeled data in DEV, reduced execution time 25%.
- Built real-time Zoomdata dashboards from Hive data for stakeholder insights.
- Automated query scheduling with orchestration tools, met project SLAs consistently.
- Led DEV-to-Production deployment, presented dashboards, raised client satisfaction 15%.
- Documented data definitions and transformations ensured governance and team onboarding.
- Delivered ad-hoc Hive/Hadoop insights, conducted analysis, boosted productivity 20%.
- **Tools Used:** Apache Hadoop, Hive, HQL, Python, Tableau, Zoom Data, Linux, Golang, Java

Project Coordinator Intern | Algoma University | Brampton, CA | Feb. 2023 – Dec. 2023

- Managed and developed Java project where I handled Database (MySQL and Mongo DB).

Advanced Coder – AI Training | Outlier | Remote, CA | Jan. 2025 – Current

- Designed and implemented AI models for outlier detection in large-scale databases, improving data accuracy by 20%.
- Optimized database queries using ML models, reducing execution time by 30% and enhancing system efficiency.
- Built predictive analytics for database performance, increasing system reliability by 25%.

Education

Bachelor Of Technology | Dr. B.R. Ambedkar National Institute Of Technology | Punjab, India | Jul. 2015 – Aug. 2019

- Major in **Electronics and Communication Engineering**
- Standard CGPA: 7.8/10
- **Relevant Course Work:** Data Structure and Algorithms, Databases, Object Oriented Programming, Operating System.

Post Graduate Certification in IT | Algoma University | Brampton, CA | Sep. 2022 – Apr. 2023

- Major in Information Technology (JAVA, SQL)
- Standard GPA: 3.7/4

Graduate Certification in Mobile Application Development | Georgian College | Barrie, CA | Jan. 2022 – Sep. 2022

- Major in Mobile Application Development (JAVA, Kotlin, Swift)
- Standard GPA: 3.8/4

Projects

Real-Time Weather Streaming and Forecasting – Azure Data Streaming

- Designed and implemented a real-time weather streaming pipeline for Chennai, India, using Azure cloud services.
- Retrieved weather data (temperature, humidity, UV) from WeatherAPI.com using Databricks (PySpark) and streamed JSON to Azure Event Hubs.
- Configured Microsoft Fabric (Eventstream, KQL Database) to process and store streaming data in a structured table format.
- Developed a Power BI dashboard to visualize current weather conditions, historical trends, and 3-day forecast predictions.
- **Tech:** Azure Databricks, Azure Event Hubs, Microsoft Fabric, Power BI, PySpark, API Integration.

Sales Sync Analytics

- Implemented a scalable data pipeline using ADF to ingest CSV files from a GitHub into ADLS G2, storing data in the Bronze container.
- Utilized Databricks with PySpark to perform data cleansing and transformation, storing that data into in the Silver container in Parquet files.
- Leveraged Synapse(Serverless SQL Pool) to process transformed data, creating external tables stored in the Gold container for efficient querying.
- Integrated Power BI with Synapse external tables to develop interactive dashboards, delivering actionable insights from processed data.

PSPCL Billing Management

- Developed a Java application with a GUI to calculate due electricity bills for rural households.
- Integrated customer data from MySQL database (historical bills) and external sources (due amounts, current units).
- Utilized Java for logic and GUI design, MySQL for data storage, and Apache POI for Excel handling.
- Tech: Java, Java Swing (GUI), MySQL, Apache POI, Excel, JDBC

Airport Luggage Tracking System (HRD Ministry Hackathon)

- Collaborated on a hackathon project to develop a real-time luggage tracking system for airports.
- Programmed Raspberry Pi 3 with Python and RFID (Model 522) for accurate luggage detection.
- Designed a mobile app for passengers to track luggage locations, improving convenience.
- Enhanced airport logistics and efficiency through precise tracking and updates.
- Tech: Python, Raspberry Pi, RFID, Mobile App Development.