

# Asjal Amir

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## SUMMARY

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Data Engineer with hands on experience in backend development and data processing. Skilled in SQL, Python, and Snowflake (Data Warehousing). Built real world projects involving data pipelines, analytics dashboards, and transactional data models, leveraging ETL workflows, Docker, and cloud platforms. Seeking a Data Engineering Entry Level role to apply data skills in designing scalable, reliable, and insight driven systems

## EDUCATION

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### University of Karachi

*Bachelor in Computer Science*

Karachi, Pakistan

## EXPERIENCE

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### Backend Developer Intern

*Bnr360*

Oct 2024–Dec 2024

*Ontario, Canada*

- Designed and developed RESTful APIs to process resumes and RFP documents in PDF format, extracting structured information for analysis
- Integrated OpenAI API to perform advanced data analysis and matching, generating match scores and improvement recommendations
- Implemented data transformation workflows to generate AI enhanced resumes, enabling users to download results in structured Word and PDF formats
- Built secure and efficient data storage and retrieval systems for large unstructured files
- Ensured maintainable and scalable architecture with modular design, middleware, and API endpoints for data access

## PROJECTS

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### SCD2 Cloud Data Pipeline

- Built an automated end-to-end data pipeline integrating AWS EC2, S3, Apache NiFi, and Snowflake for historical data versioning
- Deployed Apache NiFi and Jupyter Notebook in Docker containers on AWS EC2 for a portable and controlled environment
- Automated ingestion from AWS S3 to Snowflake using NiFi and Snowpipe for near real-time data flow
- Implemented SCD Type 2 logic using Snowflake Streams and MERGE statements to maintain full change history in dimension tables

**GitHub:** <https://github.com/mohdasjal1/end-to-end-scd2-data-pipeline>

### Snowflake Weather Warehouse

- Built a Snowflake data warehouse integrating Yelp business reviews with weather data for trend and correlation analysis
- Performed ETL workflow using SnowSQL — extracting CSV and JSON files, transforming them in an Operational Data Store (ODS), and loading them into a star schema warehouse
- Designed dimension and fact tables optimized for analytical queries and performance
- Derived insights on the impact of weather patterns on business ratings and customer behavior

**GitHub:** <https://github.com/mohdasjal1/snowflake-weather-warehousing>

## TECHNICAL SKILLS

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- **Data Engineering & Databases:** SQL, MongoDB, Snowflake (Data Warehousing)
- **Programming & Data Processing:** Python (pandas, NumPy), JavaScript (Node.js, Express), Java, C
- **Data Analytics & Visualization:** Matplotlib, aggregation pipelines, dashboard endpoints
- **Tools & Platforms:** Git, Docker, Postman, Airflow
- **Cloud & ETL Concepts:** Data Pipelines, Data Modeling, Data Storage & Retrieval, ETL workflows