

SEHAJBIR SINGH

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Permanent Resident of Canada

SKILLS

- **Programming Languages:** Python, SQL, Java, C#
- **Data Warehousing and Databases:** Snowflake, SQL Server, MySQL PostgreSQL, Database Staging
- **Data Science & Machine Learning:** Pandas, NumPy, TensorFlow, scikit-learn, Generative AI, and LLMs
- **Web Development:** Flask, React, Node, HTML, CSS
- **Data Engineering:** Azure, DBT, Airflow, Hadoop, Spark
- **DevOps & Version Control:** Terraform, Docker, Kubernetes, Git, GitHub, Power Platform
- **Data Visualization & Business Intelligence:** Tableau, PowerBI, Plotly, Seaborn
- **Agile Frameworks:** Jira, Scrum, Azure DevOps

EXPERIENCE

CLOUDEQS | REMOTE

ASSOCIATE DATA ENGINEER | AUG, 2023 – JULY, 2024

- Implemented ETL/ELT processes using **Matillion** and **DBT**, incorporating **data modeling** strategies to optimize data flow and storage, achieving a **30% boost in processing efficiency** and a **25% reduction in latency**.
- Optimized **large-scale OLAP** datasets for **Azure ADLS** in an agile **10-week sprint**, aligning legacy NetSuite data with modern architectures and **enhancing operational scalability**.
- Streamlined **CI/CD pipelines** using **Azure DevOps**, ensuring seamless integration and continuous delivery of **data workflows** while maintaining high **reliability** and **efficiency**.
- **Collaborated** with senior **stakeholders** to **migrate \$10M+ financial datasets**, integrating scalable pipelines and ensuring data integrity through **SQL performance tuning**.
- Automated data archiving and testing with **Python** and **SQL Server**, reducing manual effort by **80%**.
- Migrated **HIPAA-compliant SAP BOBJ reports** from **SQL Server** to **Snowflake** for Delta Dental, integrating **SAP** with **Snowflake**.
- **Developed a Snowflake version control dashboard** using Streamlit, collaborating with data engineers to optimize scheduling and monitor ETL workflows in Matillion, resulting in a **30% reduction in data delivery latency**.

Tech Stack: Matillion, DBT, Snowflake, Azure, Python, SQL Server, NetSuite, D365, ADLS, Snow-SQL, streamlit, Jira, Azure DevOps

ASG TECHNOLOGIES | REMOTE

CLOUD ANALYST | JAN, 2023 – JUNE, 2023

- Designed and implemented **interactive dashboards** for clients using **Tableau**, delivering actionable insights to support business decision-making and performance monitoring.
- Streamlined **data pipelines** with **Azure Blob Storage**, improving retrieval efficiency by **50%**, while maintaining high security and compliance standards.
- Created **sales KPIs** and automated data migration processes using SQL, Python, and DAGs, improving operational efficiency by **70%**. Maintained **Auto-Audits** in **Excel** using **VBA**, enhancing data accuracy and reducing manual errors.

Tech Stack: SQL, Python, DAGs, VBA, Azure, Snowflake, Hadoop, Spark, Terraform, Airflow, Data Staging

PROJECT & ACHIEVEMENTS

AIRBNB TORONTO DATA:

[\[github.com/Sehajbirsingh/Airbnb_Toronto\]](https://github.com/Sehajbirsingh/Airbnb_Toronto)

- Analyzed Toronto Airbnb dataset using **MongoDB** and **NLP-based ML techniques** to clean complex, unstructured data, migrating results to **SQL Server (SSMS)**. Designed and implemented end-to-end ETL workflows with **SSIS** and **SSAS**, creating interactive **Power BI dashboards** for effective visualization of insights.

AI JOB RECOMMENDATION:

[\[github.com/Sehajbirsingh/AI_JOB_Recommendation\]](https://github.com/Sehajbirsingh/AI_JOB_Recommendation)

- Designed and deployed an **end-to-end Generative AI** project to provide **personalized job recommendations** based on user-uploaded resumes. Leveraged **TensorFlow**, **deep learning embeddings**, and a **vector database**, integrating the **Mistral AI API** for **real-time resume feedback**.

AUTOMATED SQL MIGRATION ACCELERATOR:

- Developed an **accelerator tool** that streamlined the **migration of over 500 SQL scripts** from **SQL Server** to **Snowflake**, reducing conversion time by **90%**, enabling seamless **query optimization** and addressing diverse **use-case scenarios**.

EDUCATION & CERTIFICATES

- **POST GRAD CERTIFICATE IN APPLIED A.I. SOLUTIONS | 2025**
[Specialized in full-stack data science, Generative AI, NLP, and System Integrations] George Brown College | Toronto, ON
- **BACHELORS IN COMPUTER SCIENCE ENGINEERING | 2023**
[Focused on Programming, Algorithms, System Design and Software Development] Punjab Technical University | India
- **AWS Certified Developer Associate (DVA-C02), 2023**
- **Azure Data Scientist Associate (DP-100), 2022**