

# SARABPREET SINGH REKHI

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## EDUCATION

### Concordia University

Bachelor of Computer Science - Co-op

Montreal, QC

January 2020 - May 2025

- **Relevant Courses:** Artificial Intelligence, Data Analytics, Big Data Analytics, Databases, Web Programming

## PROFESSIONAL EXPERIENCE

### CN

Safety Data Analysis Intern

Montreal, QC

May 2024 - August 2024

- Mapped and documented databases for train, car, and locomotive safety analysis, streamlining data retrieval and reducing preparation time by 30%.
- Designed and developed Trip Analyzer Tool using Python, JavaScript and HTML/CSS, integrating KQL for database connections, automating reporting, and improving efficiency by 70%.
- Evaluated and implemented Databricks for large-scale data analysis, leveraging Spark to enhance data processing by 40%.
- Co-developed a Power BI dashboard to analyze trip metrics, including emergency braking and PTC compliance, cutting manual analysis efforts by 60%.
- Delivered Linux troubleshooting and ticket-based support for critical internal systems.

### Bombardier

Project Engineering Intern

Montreal, QC

May 2022 - December 2022

- Migrated an internal timecard tool to C#, modernizing the interface and functionality using JavaScript, Html/CSS, which boosted user satisfaction by 30% and increased submission efficiency by 20%.
- Developed a Microsoft PowerApps coordination tool with automated database updates via Microsoft Flow and SharePoint, reducing task mismanagement by 50% and streamlining project management.
- Delivered end-to-end technical support for the timecard tool, enabling seamless adoption by 100+ staff members and resolving issues within 24 hours.

### Sherweb

M365 Premier Technical Advisor IV

Montreal, QC

February 2018 - March 2022

- Delivered ticket-based support and incident management for Microsoft Teams and M365 suite, resolving issues across all severity levels while reducing client-reported problems by 20%.
- Enhanced issue resolution efficiency by coordinating SMEs and Microsoft engineering teams, improving response times and optimizing support workflows.

## PROJECTS

### Toronto Crime Trends Analysis and Prediction

Python, Pandas, Numpy, Matplotlib, Machine Learning (Scikit-learn), Google Collab, Streamlit

Montreal, QC

January 2024 - April 2024

- Applied data analytics to integrate and analyze large datasets, uncover crime trends, and derive actionable insights using exploratory data analysis (EDA) and ETL processes.
- Developed and optimized classification models, including Decision Tree and Multi-Layer Perceptron, to predict crime types with 85%+ accuracy, leveraging hyperparameter tuning and performance metrics like precision and F1 score.

### HR Analytics - Power BI Dashboard

MS Excel, Power BI, Power Query, DAX

Montreal, QC

January 2024

- Led an HR Analytics project using Power BI to analyze employee work preferences, optimize hybrid work models, and improve team event planning.
- Conducted sick leave analysis to identify high-absence periods and underlying causes, driving initiatives to enhance employee well-being and productivity.

## ACTIVITIES & LEADERSHIP

### Concordia Sikh Student Association

Vice President of Internal Affairs

Montreal, QC

April 2021 – September 2024

### Khalsa Aid

Volunteer

Montreal, QC

April 2021 – Present

## SKILLS & INTERESTS

**Operating Systems:** Linux, Windows, Mac

**Programming Languages:** SQL, KQL, Python, C #, JavaScript, HTML/CSS

**Tools:** Power BI, Tableau, MS Excel, Spark, Autosys, ServiceNow, Git, Docker, PowerApps, Flow, SharePoint, Visual Studio Code

**Database Management Systems:** MySQL, MongoDB, Microsoft SQL, PostgreSQL

**Cloud Services:** AWS, Databricks, Snowflake