SARABPREET SINGH REKHI

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EDUCATION

Concordia University

Montreal, QC

Bachelor of Computer Science - Co-op

January 2020 - May 2025

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%.

 Built a responsive Trip Analyzer Tool (HTML/CSS/JS, Python, KQL) in an Agile environment, 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%.
- Handled Linux incident management and troubleshooting using shell scripting in a high-availability environment.

Bombardier Montreal, QC

Project Engineering Intern

May 2022 - December 2022

- Modernized the timecard tool's UI (HTML/CSS/JS) as part of an Agile team, boosting user satisfaction by 30% and 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.
- Managed incident resolution and application-level troubleshooting for the timecard system, ensuring <24-hour turnaround on issues during deployment and post-rollout for 100+ users across departments.

Sherweb Montreal, QC

M365 Premier Technical Advisor IV

February 2018 - March 2022

- Delivered ticket-based support and incident management for Microsoft 365 and Microsoft Teams, troubleshooting issues from low to Sev-1 priority using PowerShell scripts and diagnostics.
- Investigated and resolved software and network-related issues (TCP, HTTP/S, Firewalls, Proxies), improving first-response resolution by 20%.
- Collaborated with SMEs and Microsoft engineering to streamline support workflows, cutting incident resolution times and enhancing client satisfaction.

PROJECTS

Toronto Crime Trends Analysis and Prediction

Montreal, OC

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

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

Montreal, QC

MS Excel, Power BI, Power Query, DAX

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

Vice President of Internal Affairs

Concordia Sikh Student Association

Montreal, QC

April 2021 – September 2024

Khalsa Aid Volunteer Montreal, OC

April 2021 – Present

SKILLS

Operating Systems: Linux, Windows, Mac

Programming Languages & Scripting: SQL, KQL, Python, JavaScript, HTML/CSS, Shell Scripting, PowerShell

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