

Jeremy Friesen

+1 (343) 575-8441 | jeremyfriesen@cmail.carleton.ca | LinkedIn: [jeremyfriesen1](#) | GitHub: [JeremyFriesenGitHub](#)

EDUCATION

Carleton University

Bachelor of Computer Science, Honours - Co-op option

- Artificial Intelligence and Machine Learning Stream
- GPA 3.59/4 (letter grade of B+)

Ottawa, ON

Sept. 2022 – May 2027

AVAILABILITY

Available for 4 months beginning May 2025

EXPERIENCE

Science and Research Assistant

Public Safety Canada

- Starting new position for Winter 2025 Co-op

Jan. 2025 – April 2025

Ottawa, ON

Level 1 Analyst

Royal Canadian Mounted Police

- Worked as an IT-01 **Technical Analyst** for the RCMP's **Central Help Desk** as a first point of contact for technical problems and requests through the call center phone system as well as the self-service ticketing system
- Provided first level support for **200+ applications**
- Used **troubleshooting** methodology in order to better understand the issues at hand

Sept. 2024 – Dec. 2024

Ottawa, ON

Data Scientist for Complex Systems

National Research Council of Canada

- Contributed to the **AI for Logistics Program** and **Digital Technologies Research Centre**, with emphasis on transportation, warehousing, infrastructure, and AI-driven modeling
- Analyzed complex sensor and historical datasets (geospatial, tabular, specification) to streamline data clarity and structure
- Utilized **Python** libraries (**GeoPandas**, **Folium**, **Pandas**, **Matplotlib**, **NumPy**, **Seaborn**) for annotations, visualizations, optimizations, and trend analyses

May 2024 – Aug. 2024

Ottawa, ON

PROJECTS

cuHacking | Core Development Team Organizer

- Helped design backend architecture for user profiles using **Postgres** with **Drizzle ORM** and created ER diagrams with **Mermaid charts**
- Created pages for the documentation site using **Fumadocs** and **MDX**, enhancing project organization and showcasing guidelines, standards, and knowledge base for the organization
- Wrote end-to-end tests for the docs site with **Playwright**, demonstrating strong testing skills
- Integrated an **AI-powered pull request reviewer** to streamline team PR reviews, supporting the internal development workflow

Aug. 2024 – Dec. 2024

Statsbomb DBMS | Python, PostgreSQL, Psycopg, JSON, Git

- Developed a Database Management System in **PostgreSQL** for the Open-Source Statsbomb repository to store and query historical **JSON** soccer data, utilizing Normalization Theory techniques, ER diagrams and Schema diagrams to correctly store all attributes across tables
- Developed loaders in **Python** using the **Psycopg** library to efficiently load **JSON** data into the **PostgreSQL** Database and created efficient **SQL** queries, demonstrating strong technical knowledge

March 2024 – April 2024

TECHNICAL SKILLS

Languages: Python, SQL (PostgreSQL), TypeScript, JavaScript, Java

Frameworks & Libraries: Drizzle ORM, Node.js, Next.js, TailwindCSS, React, Shadcn/ui

Data & Visualization: Pandas, GeoPandas, Matplotlib, Seaborn, Folium, Mermaid, Recharts

Testing & Documentation: Playwright, Fumadocs, MDX

Developer Tools: Git, Jupyter Notebooks, VS Code, PyCharm, IntelliJ