Jeremy Friesen

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BASIC PROFILE

Security Clearances: Secret (Level II), Enhanced Reliability Status (Level I)
Language Proficiency: English (native), French (native)
Certifications: Python (basic), JavaScript (basic), Java (basic), Intro to Machine Learning

EDUCATION

Carleton University   Ottawa, ON
Bachelor of Computer Science, Honours - Co-op option   *Sept. 2022 – May 2027*
- Artificial Intelligence and Machine Learning Stream
- CGPA 10.11/12 (letter grade of A-)
- Available for 4 months beginning May 2025

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

EXPERIENCE

Science and Research Assistant   Jan. 2025 – April 2025
Public Safety Canada   *Ottawa, ON*
- Starting new position for Winter 2025 Co-op

Level 1 Analyst   Sept. 2024 – Dec. 2024
Royal Canadian Mounted Police   *Ottawa, ON*
- 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** by using **troubleshooting** methodology in order to better understand the issues at hand for clients

Data Scientist for Complex Systems   May 2024 – Aug. 2024
National Research Council of Canada   *Ottawa, ON*
- Advanced 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), leveraging **Python** libraries (**GeoPandas**, **Folium**, **Pandas**, **Matplotlib**, **NumPy**, **Seaborn**) to streamline data clarity and structure

PROJECTS

cuHacking | *Core Development Team Organizer*   Aug. 2024 – Dec. 2024
- Designed backend architecture for user profiles with **Postgres**, **Drizzle ORM**, and **Mermaid** ER diagrams
- 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 PR reviewer** to enhance team reviews and internal workflows

Statsbomb DBMS | *Python, PostgreSQL, Psycopg, JSON, Git*   March 2024 – April 2024
- Developed a Database Management System in **PostgreSQL** for the Open-Source Statsbomb repository to store and query historical 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