

OWEN RITCHIE

☎ (613)-876-2066 — 📍 220 Stewart St, Ottawa, ON, K1N 6K2
✉ owenritchie04@gmail.com

Third year CO-OP student pursuing a degree in Computer Science at the University of Ottawa, with a passion for creative solutions. Excited to demonstrate my skills in analysis, software development and requirements engineering in order to transform complex data narratives into actionable insights.

EDUCATION

University of Ottawa

Honours BSc Computer Science

2022 - 2026

Ottawa, ON

PROFESSIONAL EXPERIENCE

Junior Statistical Analyst

CFO Stats, Global Affairs Canada

January 2025 - Present

Gatineau, QC

- Optimized ETL pipeline performance by implementing concurrent features for API transfers, **reducing processing time by over 95%**
- Regularly used Power BI & Power Query to develop dashboards on complex semantic models, providing vital policy tools for management in a time of governmental transition
- Explored the use of AI in different departmental workflows, improving the depth of statistical analyses, as well as aiding in decision making processes
- Created reusable analysis templates using Python, ensuring future efficiency in year over year project development

Data Analyst Intern

Poisson Consulting Ltd.

May - September 2023

- Utilized R and Tidyverse packages to clean, manipulate, and analyze raw data for projects serving both private & public sector clients, including BC Hydro
- Leveraged QGIS to map and analyze spatial data from drone surveys, monitoring changes in fish populations
- Performed error detection and correction, updating Poisson's R packages to replace deprecated functions with new solutions
- Created scripts to import and organize large datasets in various file formats into SQLite databases, adhering to 'tidy' data standards

Teaching Assistant

Columbia Mountains Institute of Applied Ecology

July 2023

- Assisted with the preparation and delivery of Intro to R, a course demonstrating the capabilities of R, its various packages and its statistical applications in biology/ecology

SKILLS & TECHNICAL KNOWLEDGE

- **Languages:** Python, SQL, Java, R, JavaScript
- **Machine Learning:** Scikit-learn, Pandas, Matplotlib, Tidyverse packages (ggplot2, tidyr etc.), Tensorflow
- **Web Development:** HTML, CSS & JS (React, Express, Node), Flask, Web Hosting (Render, Netlify)
- **DBMSs:** PostgreSQL, SQLite, Firebase Firestore & Authentication
- **Additional Software:** Power BI, Metabase, Looker Studio, Git procedures, pgAdmin4, Jupyter Notebook, Google Collab, QGIS, Microsoft 365, Helix ALM

PERSONAL PROJECTS

- **Digital Transformation In Sub-Saharan Africa:** Automated, End-to-End dashboard for key indicators that represent Africa's digital advancement over the last decade, using Python, SQL, Metabase & Github Actions. Used Neon & PostgreSQL for a cloud database, as well as Docker & Toystack to deploy the dashboard. Github actions provides regular refreshes using the World Bank Development Indicator's API (2025)
- **charDrop:** Developed a live chat application using Python, JavaScript and SocketIO allowing users to collaborate on projects without account creation. Users can send texts and code blocks within public or private chat rooms (2024)

Valid Secret Level Security Clearance as of December, 2024 — *References Available Upon Request*