

# OWEN RITCHIE

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A self-driven developer who thrives when creativity and technicality intersect. Professional experience in Data Analysis, Machine Learning, Predictive Modeling, and Software Development. Adept at optimizing data pipelines, automating processes, and creating insightful visualizations that transform scattered information into actionable insights.

## EDUCATION

University of Ottawa

Honours BSc Computer Science

2022 - 2026

Ottawa, ON

## 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, Neon
- **Additional Software:** Power BI, Metabase, Looker Studio, Git procedures, pgAdmin4, Jupyter Notebook, Google Collab, QGIS, Microsoft 365, Helix ALM

## 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%**
- Used Power BI to develop dashboards on complex semantic models, **providing vital policy tools for 10+ Directors** in a time of governmental transition
- Processed **millions of records of development expenditure data** using Pandas, Power Query & SQL
- Created multiple reusable analysis templates in Python, spearheading a move towards sustainable analysis practices

Data Analyst Intern

Poisson Consulting Ltd.

May - September 2023

Nelson, BC

- 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
- Tested for errors, updating the codebase's deprecated functions with efficient solutions
- Created pipelines to import, process and organize large datasets into SQLite databases, adhering to 'tidy' data standards

Teaching Assistant

Columbia Mountains Institute of Applied Ecology

July 2023

Remote

- 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

## 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*