

# OWEN RITCHIE

(613) 876-2066 ❖ [owenritchie.ca](https://owenritchie.ca) ❖ [linkedin.com/in/owenritchie2004](https://linkedin.com/in/owenritchie2004) ❖ [owenritchie04@gmail.com](mailto:owenritchie04@gmail.com)

## Education

**HONOURS BACHELOR OF SCIENCE, COMPUTER SCIENCE - UNIVERSITY OF OTTAWA**

**2022 - 2027**

- Dean's List (2025), Courses such as: Design & Analysis of Algorithms, Operating Systems, Requirements Engineering

## Work Experience

**DATA ENGINEER INTERN - KINAXIS**

**Sept 2025 - Aug 2026**

- Architected the migration of 10+ years of ServiceNow and LogicMonitor telemetry from on-prem PostgreSQL to GCP using Python and dlt
- Saved 8+ hours monthly by automating Cloud Services reporting, eliminating a manual process for our FinOps lead
- Automated sentiment analysis of 140+ Gong exit interviews using LLMs, identifying competitor win patterns for our sales & marketing teams
- Transformed multiple parquet datasets in GCS buckets with a medallion architecture using dbt core & BigQuery
- Co-designed and built the data model for a personalized executive dashboard for our new CEO
- Automated ELT pipelines via Cloud Run and GitHub Actions, keeping metrics like active Maestro users up to date
- Built a BigQuery cost analysis Chrome extension at our 2025 Hackathon, comparing query costs against GCP commitments and providing optimization strategies through Vertex AI

**JUNIOR STATISTICAL ANALYST - GLOBAL AFFAIRS CANADA**

**Jan 2025 - July 2025**

- Developed an interactive Power BI dashboard for 10+ Directors, implementing what-If scenarios to model policy impacts across G7 development sectors
- Optimized ETL pipelines using Python's ThreadPoolExecutor, reducing ingestion from 30 minutes to sub 3 seconds
- Curated 5+ years of OECD, World Bank, UN, and World Economic Forum data supporting 50+ statistics in Canada's G7 Accountability Report (Kananaskis 2025)

**DATA SCIENCE INTERN - POISSON CONSULTING**

**May 2023 - Sept 2023**

- Cleaned and analyzed 500,000+ records using R and Tidyverse to support fish population revitalization efforts in the Lower Columbia River
- Mapped 3,000+ salmon redds from weekly drone surveys in QGIS, allowing clients to optimize dam water levels for 95%+ egg survival rates
- Volunteered as Teaching Assistant at Columbia Mountains Institute of Applied Ecology, instructing 15 students on statistical applications of R in biology and ecology

## Personal Projects

**LIVE OC TRANSPO BUS ANALYTICS | [oc-transpo.streamlit.app](https://oc-transpo.streamlit.app)**

**2025-2026**

*Python, SQL, PostgreSQL, dbt, Streamlit, GitHub Actions, CI/CD, ELT*

- Engineered an end-to-end Medallion architecture to track 700+ municipal vehicles, using dbt for multi-stage transformations on a Neon PostgreSQL database. Hourly ingestion & transformations are handled via GitHub Actions and presented through a Streamlit dashboard, providing real-time observability into city-wide transit performance.

**DIGITAL TRANSFORMATION IN SUB-SAHARAN AFRICA**

**2025**

*Python, SQL, PostgreSQL, Metabase, GitHub Actions, Docker, World Bank API, ETL*

- Architected an end-to-end ELT pipeline using Python and SQL to ingest and process data from the World Bank Development Indicators API for 48 countries. Built a centralized data mart on cloud PostgreSQL with automated ingestions, enabling a Metabase dashboard to track 10+ KPIs such as cell phone adoption, internet connectivity, and electrification.

## Technical Skills

**PROGRAMMING:** Python (Pandas, Polars), SQL, R, Bash/Shell Scripting, Java, JavaScript/TypeScript (Node.js, React, Astro)

**DATA ENGINEERING:** GCP (BigQuery, Cloud Storage, Cloud Run), dbt, PostgreSQL, ETL/ELT Pipelines, GitHub Actions

**VISUALIZATION:** Power BI, Looker Studio, Plotly, Matplotlib, Streamlit, Grafana, Datadog

**MACHINE LEARNING & AI:** Scikit-learn, TensorFlow, Vertex AI (Gemini), NLP & Sentiment Analysis

**ADDITIONAL:** Jira, Miro, Docker, Claude Code & OpenAI Codex, REST APIs, WSL & Linux, CI/CD, Agile Methodologies