# OWEN RITCHIE

(613)-876-2066 ⋄ Ottawa, ON ⋄ owenritchie04@gmail.com
linkedin.com/in/owenritchie2004

**⊕ VIEW PORTFOLIO**

owenritchie.github.io

Data driven engineer skilled in architecting scalable pipelines, models, and dashboards across large datasets in the cloud. Loves combining technical depth with creative problem-solving, leveraging experience in requirements engineering, predictive modeling, and full-stack development to deliver results on complex & meaningful real-world projects.

## EDUCATION

**University of Ottawa** — Honours BSc Computer Science - Deans List 2025      **2022 - 2027**
*Relevant Coursework:* Design & Analysis of Algorithms, Networking & Communications, Operating Systems

## PROFESSIONAL EXPERIENCE

**Data & Analytics Engineer Intern**      **September 2025 - Current**
*Kinaxis Inc.*      *Kanata ON*
- Leading end-to-end migration of LogicMonitor, Salesforce and ServiceNow metrics from Postgres to a modern BigQuery stack. Using dbt models & GitHub Actions YAML to orchestrate Python ingestions & transformations for 46 source tables
- Using Python, Github Actions & React/Typescript, created a BigQuery cost analysis Google Chrome extension in the 2025 Kinaxis Hackathon, enabling cost transparency for engineers through query cost breakdown against current Kinaxis GCP commits
- Using SQL and Power BI, aided in the development of our FOCUS reporting, a standard for spend across AWS, GCP and Azure cloud costs. Reports analyzed 20TB+ of cloud infrastructure data down to the daily spend and per-disk costs, which allows execs to rightsize their resources to meet commit targets
- Spearheaded redesign of C-level executive report on why Kinaxis is losing deals to competitors. Used Copilot to automate Gong exit interview analysis, giving crucial observability to our product, sales & marketing departments

**Junior Statistical Analyst**      **January 2025 - July 2025**
*Global Affairs Canada*      *Gatineau QC*
- Pioneered the department's first interactive development indicators dashboard using Power BI, DAX, and Power Query, enabling 10+ directors to customize sector weightings for scenario-based decision making
- Using Python, Pandas & ThreadPoolExecutor, transformed an ETL pipeline with concurrent API processing, reducing total data extraction time from 30 minutes to less than 3 seconds
- Helped lead data pre-processing for Canada's G7 Accountability Report, personally handling around 30% of the analytical workload and ensuring full data transparency through documentation

**Computational Biologist Intern**      **May - September 2023**
*Poisson Consulting Ltd.*      *Nelson BC*
- Employed R & Tidyverse packages to clean, manipulate, and analyze datasets containing 500,000+ records targeted at revitalizing fish populations in British Columbia
- Leveraged QGIS to map and analyze 3000+ Salmon Redds from weekly drone surveys in order to optimize dam water levels for 95%+ egg survival rates
- Volunteered as a Teaching Assistant at Columbia Mountains Institute of Applied Ecology, answering questions and teaching 15 students statistical applications of R in biology/ecology

## MY LATEST PROJECT

- **OC Transpo Real-Time Transit Analytics Dashboard** — oc-transpo.streamlit.app      **2025**
  *Skills: Python, SQL, PostgreSQL, dbt, Streamlit, GitHub Actions, CI/CD*
  End-to-end analytics dashboard for Ottawa's bus fleet featuring live mapping of vehicles and comprehensive transit performance metrics. Implemented a medallion architecture using dbt for data transformation with automated hourly API pulls feeding into a Neon PostgreSQL database. Deployed using Streamlit with continuous data refreshes orchestrated through GitHub Actions.

## SKILLS

**Programming:** Python ● R ● SQL ● TypeScript ● React ● Git ● Docker ● REST APIs ● Jupyter
**Data Engineering:** dbt ● GCP ● BigQuery ● PostgreSQL ● Snowflake ● Apache Airflow ● ETL/ELT ● GitHub Actions
**Visualization:** Power BI ● Power Query ● Looker ● Grafana ● Pandas ● NumPy ● Streamlit ● Metabase
**Machine Learning:** Scikit-learn ● Feature Engineering ● Time Series Analysis ● NLP ● Prompt Engineering ● TensorFlow
**Collaboration:** Jira ● Miro ● Confluence ● AI Tools (Claude Code, Groq, Vertex AI) ● Agile Methods
**Currently Learning:** Tensorflow ● Databricks ● Apache Spark