

# OWEN RITCHIE

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

Data driven engineer skilled in architecting scalable pipelines, models, and executive dashboards across large datasets. Combines technical depth with creative problem-solving, leveraging experience in requirements engineering, predictive modeling, and full-stack development to deliver results on complex, large-scale 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*

- **Using SQL, Dataflows and Power BI, analyzed 20 TB+ of cloud infrastructure data** down to the daily spend and per-disk costs, **enabling executives to strategically allocate & rightsize resources** in order to maximize multi-year commit utilization
- **Leading end-to-end migration of critical Salesforce and ServiceNow metrics** from PostgreSQL/Grafana to a modern BigQuery stack, **architecting dbt models for ELT workflows and implementing data quality checks across 23 source tables**
- Created a BigQuery cost analysis Chrome Extension at our hackathon that provides real-time optimization insights, **enabling engineers to cut costs by thousands of dollars when developing dbt workflows and data models**
- Spearheaded design 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

## SKILLS

Python • R • SQL • Pandas • NumPy • Scikit-learn • TensorFlow • Machine Learning • dbt • BigQuery • PostgreSQL • Snowflake • Apache Airflow • ETL/ELT • Power BI • Power Query • Looker • Grafana • Data Visualization • Jupyter • Feature Engineering • Time Series Analysis • NLP • Git • Docker • REST APIs • JSON/XML • Agile • Jira • Miro • Confluence • AI Tools (Claude Code, Groq, Vertex AI) • Prompt Engineering

## 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 in a Neon PostgreSQL database. Deployed using Streamlit with continuous data refreshes orchestrated through GitHub Actions.