

OWEN RITCHIE

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 [VIEW PORTFOLIO](https://owenritchie.github.io)

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 - Dean's 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 BigQuery, orchestrating Python ingestions and transformations for 46 source tables (dbt, dlt, Python, GitHub Actions)
- Built a BigQuery cost analysis Chrome extension at the 2025 Kinaxis Hackathon, enabling engineers to see real-time query costs relative to GCP budget commitments (Python, GitHub Actions, React/TypeScript)
- Contributed to automated FOCUS reporting, a multi-provider standard across AWS, GCP, and Azure cloud costs. Analyzed 20TB+ of infrastructure data down to daily spend and per-disk costs, enabling execs to rightsize resources against commit targets (SQL, Power BI, Power Query, Dataflows)
- Spearheaded redesign of a C-level executive report analyzing why Kinaxis loses deals to competitors. Automated Gong exit interview analysis using Copilot, delivering actionable insights to product, sales, and marketing teams

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
- Transformed an ETL pipeline with concurrent API processing, reducing data extraction time from 30 minutes to under 3 seconds (Python, Pandas, ThreadPoolExecutor)
- Helped lead data pre-processing for Canada's G7 Accountability Report ensuring full data transparency through documentation

Computational Biologist Intern **May - September 2023**
Poisson Consulting Ltd. *Nelson BC*

- Used R & Tidyverse packages to clean, manipulate, and analyze datasets containing 500,000+ records, helping support fish population revitalization efforts
- 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

Collaboration: Jira • Miro • Confluence • AI Tools (Claude Code, Groq, Vertex AI) • Agile Methods

Currently Learning: Tensorflow • Databricks • Apache Spark