

OWEN RITCHIE

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 [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 - 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

Kanata ON

Kinaxis Inc.

- 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

Gatineau QC

Global Affairs Canada

- 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

Nelson BC

Poisson Consulting Ltd.

- 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