

OWEN RITCHIE

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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 <i>Kinaxis Inc.</i>	September 2025 - Current Kanata ON
<ul style="list-style-type: none">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 utilizationLeading 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 tablesCreated 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 modelsSpearheaded 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 <i>Global Affairs Canada</i>	January 2025 - July 2025 Gatineau QC
<ul style="list-style-type: none">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 makingUsing Python, Pandas & ThreadPoolExecutor, transformed an ETL pipeline with concurrent API processing, reducing total data extraction time from 30 minutes to less than 3 secondsHelped 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 <i>Poisson Consulting Ltd.</i>	May - September 2023 Nelson BC
<ul style="list-style-type: none">Employed R & Tidyverse packages to clean, manipulate, and analyze datasets containing 500,000+ records targeted at revitalizing fish populations in British ColumbiaLeveraged QGIS to map and analyze 3000+ Salmon Redds from weekly drone surveys in order to optimize dam water levels for 95%+ egg survival ratesVolunteered 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 a Neon PostgreSQL database. Deployed using Streamlit with continuous data refreshes orchestrated through GitHub Actions.