

SYLVAIN PAQUET

AI Strategy & Solutions · Data Infrastructure · Data Science & Engineering · Enterprise Data Governance

Secret clearance (Canada) · Bilingual (E-E-E) · Email: sylvain@spaquet.work

SUMMARY

Strategic and hands-on data and AI leader experienced in enterprise architecture, cloud modernization, data governance and AI delivery across federal organizations. Combines technical expertise with a PhD focused on game theory and strategic decision-making. Proven ability to lead cross-functional teams, deliver production-ready solutions, improve operational performance and translate complex business requirements into scalable technology.

EXPERIENCE

Manager, Data Infrastructure Division

Public Services and Procurement Canada

2024–Present

- Leading platform modernization, reporting enablement, and AI development to support enterprise procurement and analytics priorities.
- Leading the development of Antonio, an all-in-one business intelligence application that combines a SQL editor, a drag-and-drop BI interface, a Jupyter Notebook-like interface, a file browser, and a chatbot to facilitate and automate report generation. Fully custom-coded, in-house.
- Leading a cross-functional team using Agile/Kanban practices, improving execution discipline, technical quality, and delivery predictability.
- Leading the design of an AI-driven Statement of Work builder for Sage.
- Evaluating requirements and the solution design for a potential future digital procurement platform.
- Designed the solution architecture for Sage (an enterprise-level RAG model and web application that provides expert assistance to procurement officers), and led its development (hands-on). Now live.
- Contributed to the development of Procura, a public chatbot on the CanadaBuys website meant to answer questions from the public about how procurement work in the Government of Canada. Now live.
- Architected and deployed a full-scale Azure data platform and data warehouse—ADRAS—integrating many sources for reliable BI, with a \$1.6M initial budget. Now live.
- Led the ETL development of ADRAS with hands-on SQL coding and creation of pipelines in Azure Synapse.
- Reprioritized team resources and delivery scope to recover a 2-month project delay within 2 weeks in July 2024.



AWARDS

Innovation Award

2023

Public Services and Procurement Canada

For proposing and creating a data warehouse in less than two months to solve critical and urgent reporting problems.

Innovation & Guiding Change

Canada Border Services Agency

2021

For critical data analytics, pipelines, and predictive modelling under tight timelines for COVID contact tracing.

EDUCATION

Ph.D. in Political Science

2019

University of Ottawa

[Thesis on game theory \(access here ↗\)](#)

M.A. in Political Science

2013

UQAM

B.A. in Political Science

2011

UQAM

EXPERIENCE

Advisor and Team Lead, Data Infrastructure Division

Public Services and Procurement Canada

2023-2024

- Set up Git repositories and Agile rituals and practices to ensure the proper sharing and management of scripts and revisions.
- Mentored technical staff through prototyping, and iterative delivery, reinforcing strong engineering and documentation practices.

Senior Analyst, Procurement Statistics Division

Public Services and Procurement Canada

2022-2023

- Established a high-performing culture and drove a 90%+ reduction in backlogs during a management acting term.
- Established peer code reviews and knowledge-sharing practices to strengthen team capability, code quality, and delivery consistency.
- Automated 75 recurring reports with Python and SQL to boost efficiency.

Data Scientist, Data Science Division

Canada Border Services Agency

2019-2022

- Chaired calls between the Public Health Agency of Canada (PHAC) and the Canada Border Services Agency (CBSA) to align stakeholders, and determine data requirements during the COVID-19 pandemic.
- Directed and mentored data scientists for the design of COVID-19 risk scoring machine learning models.
- Directed and mentored data scientists for the design trade fraud detection machine learning models.
- Deployed cloud-native data pipelines and automated reports in AWS for the \$54M+ ArriveCan and ContactTrace data.
- Delivered weekly compliance dashboards to senior management.

Research and Policy Analyst, Data Governance Centre

Canada Border Services Agency

2017-2019

- Collaborated and guided meetings on the authoring and implementation of 10+ data standards aligned with ISO, WTO, and ICAO frameworks, strengthening data governance consistency and stewardship.
- Worked on the initial planning of enterprise-wide data stewardship and governance and launched a data stewardship network to improve data governance and data quality issue resolution.
- Worked on the design and debugging of a modern web application (ORA) meant to replace an old mainframe application (G11).
- Built interim BI reporting tools and reverse-engineered applications to automate data entry workflows.

COMPETENCIES

Enterprise Data Leadership

People-First Management
Change Management
Enterprise Vision
Data Governance
Data Stewardship
Privacy-by-Design

Technical Leadership

Solutions Architecture
Cloud (Azure/AWS)
Data Warehousing
ETL/ELT Pipelines
Machine Learning
Generative AI/LLM
SQL, Python, C#, and more

BOARDS

President

2017-2026

World Federalist Foundation

Board Member

2016-2026

World Federalist Movement Canada

CERTIFICATES

Leadership Learning Path

2025

Canada School of Public Service

AWS Cloud Practitioner

2022

Amazon Web Services

INTERESTS

- Programming
- Language learning
- Learning and trying new things.