

| My New Hugo Site

Collin **Brown**

Sr. Data Architect /
Technical Advisor

M.Sc. Candidate, M.A.

Proven Data Engineering and Data Architecture expertise. Track record of successful delivery of complex data-driven projects in large enterprise settings.

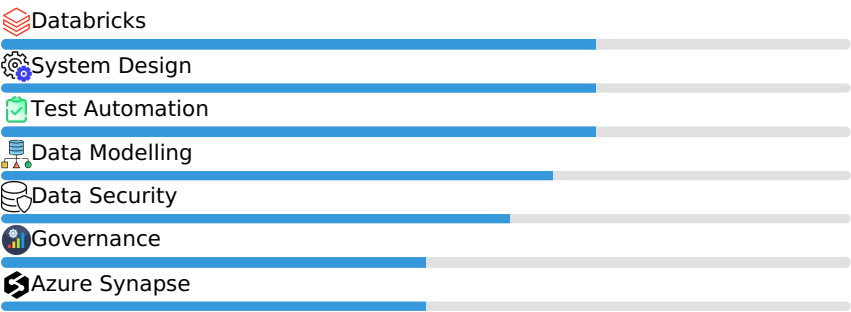
Combining my background in Data Science, Data Engineering, and Platform Development, I've driven projects at every level of the data value chain. From pioneering proof-of-concepts to leading large-scale system redesigns, I've honed expertise in scalable data architectures and DevOps best practices.

My focus now is on combining my technical experience with business domain knowledge to ensure that valuable concrete data solutions derive meaningful organizational value.

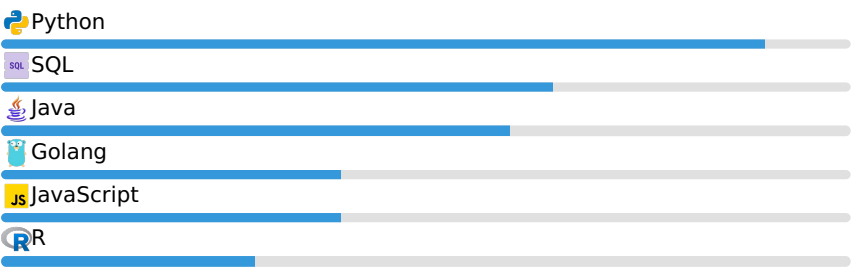
Skills

These are the core skills I've developed and applied meaningfully in professional settings. For transparency, I indicate my **recency and level of experience** with each skill.

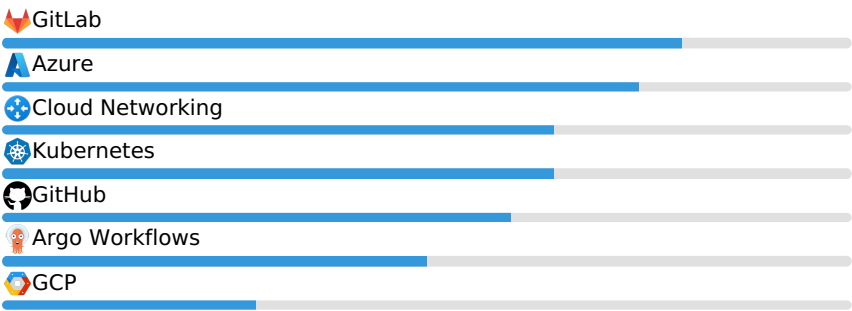
Data Architecture and Data Engineering



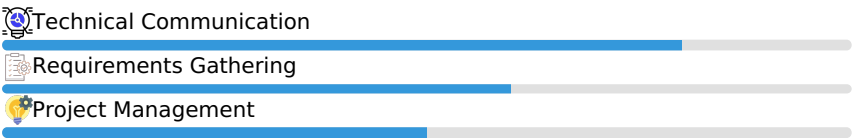
Programming Languages



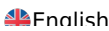
Cloud, Infrastructure, and DevOps




Soft Skills



Languages



 English

 French

Icons provided by [Icons8](#), [DevIcon](#), and [Azure Icons](#)

Work Experience

Sr. Data Architect / Technical Advisor

Consumer Prices Division - Statistics Canada | 2024 - Present

Lead the development and oversight of our division's domain-specific data lake and medallion architecture, managing data ingestion, validation, and processing pipelines while serving as a technical advisor on data engineering practices.

[More Detail →](#)

Sr. Platform Developer

Various IT Teams - Statistics Canada | 2022 - 2024

Led multiple development efforts for a Kubernetes-native data analytics platform, implementing horizontal capabilities and advising on data mesh architecture.

[More Detail →](#)

Data Engineer

Data Science Division - Statistics Canada | 2020 - 2022

Led an 18-month redesign of a large data processing system for transportation statistics. Delivered the solution on time, under budget, and ensured a smooth transition to production.

[More Detail →](#)

Jr. Data Scientist

**Data Science Division - Employment and Social Development
Canada | 2018 - 2020**

Led Proof-of-Concept projects in data analytics and machine learning, delivering actionable insights and automation through small-scale internal tools and analysis outputs.

[More Detail →](#)

Education



Georgia Institute of Technology

Master of Science in Computer Science

Specialization in Artificial Intelligence

2024 - 2027 (expected)



Athabasca University

Undergraduate Coursework in Computer Science

2020 - 2023



Queen's University

Master of Arts in Economics

Concentration in Econometrics

2017 - 2018



McMaster University

Bachelor of Arts in Economics

Minor in Mathematics and Statistics

2013 - 2017

Publications

2025 Survey of CPI Production Systems

Published: 2025-04-30

Audience: [UNECE's 2025 Meeting of the Group of Experts on Consumer Price Indices](#)

Delivered a [report](#) and [presentation](#) summarizing the results of a Survey of National Statistics Offices for 70 countries on CPI system modernization on behalf of the United Nations Economic Commission for Europe's (UNECE) [Committee of Experts on Big Data and Data Science for Official Statistics](#).

What Drives Bitcoin Fees? Using SegWit to Assess Bitcoin's Long-Run Sustainability

Published: 2021-01-21

Journal: [Journal of Financial Market Infrastructures](#)

Can Bitcoin remain tamper-proof in the long run? We use block-level data from the Bitcoin blockchain to estimate the impact of congestion and the US dollar price on fee rates.

Awards

- **Divisional Award - Excellence in Project Delivery** - Statistics Canada · Consumer Prices Division (2025)
- **Branch Award - Most Innovative Project** - Statistics Canada · Modern Statistical Methods and Data Science Branch (2022)

Open Source Contributions

- [Doccoano](#): Implemented internationalization on the user interface, and also implemented miscellaneous small feature requests and bug fixes.
- [Lingui-JS](#): I contributed an example of setting up an Rspack

project with Lingui-JS.
