

## Contact

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(LinkedIn)

## Top Skills

Python

GIS

Machine Learning

## Languages

English (Native or Bilingual)

French (Native or Bilingual)

Spanish (Elementary)

# François Leblanc

Data Scientist at Environment and Climate Change Canada  
Gatineau, Quebec, Canada

## Summary

Experienced Data Scientist with a demonstrated history of solving problems in the Canadian Government. Skilled in Python and its data and science stacks, GIS, Unix, Computer Vision, Machine Learning and Software Development.

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## Experience

### Environment and Climate Change Canada

3 years 3 months

#### Data Scientist

August 2018 - Present

Gatineau, Québec, Canada

Working in ECCC's Data Lab, in a multi-disciplinary team tasked with developing data solutions to key problems throughout the department.

- Rapid development of data solutions by use of data science techniques, statistics, machine learning, data warehousing, and visualization (Python, PostgreSQL, SQL Server, MySQL, Tableau, PowerBI)

#### Selected projects:

- Using deep learning to automate bird counting and positioning from aerial imagery (Python, Keras, Azure) [ongoing]
- Using text analytics techniques for public consultations (Python, gensim, spacy) streamlining the analysis process of program analysts to effectively understand what is being said through thousands of comments [ongoing]
- Automating the rider sign-in for the departmental shuttles, using onboard tablets equipped with employee card readers (PHP, PowerBI, Azure) [ongoing]

#### Physical Science Officer

October 2017 - August 2018 (11 months)

Gatineau, QC

Tracking Pollution in Canada for the National Pollutant Release Inventory (NPRI). Ensuring the data on pollutant release is up to date and relevant to the needs of its users: internal to ECCC, environmental researchers, environmental NGOs and the Canadian public.

- Dealing with everything geospatial-related: publishing map layers on Open Data portal, spatial statistics, QA (Python, PostGIS, Esri ArcMap and ArcGIS Online)
- Communicating pollution science to the Canadian public: led a series of interactive sector overviews on Canadian industrial sectors (ArcGIS Online), the creation of NPRI infographics, and a NPRI "smelling booth" at the Eureka science festival in Montréal.

#### Data and Visualization Analyst

December 2015 - October 2017 (1 year 11 months)

Gatineau

Helping ECCC's HR Branch to easily extract, interact with, compare and visualize their HR data.

- Set up data pipelines to automate the extraction, transformation and loading (ETL) of data from its various databases into explorable datasets.
- Developed and maintained a dozen bilingual Tableau dashboards for use by HR Advisors, managers and senior executives for the planning, analysis and forecast of Human Resource needs throughout the department.

#### Canadian Space Agency | Agence spatiale canadienne

Mission Planner - Data Acquisition

March 2017 - August 2017 (6 months)

St-Hubert, Québec

- Provided Synthetic Aperture Radar (SAR) satellite imagery to Government of Canada clients, university research teams and the "Space & Major Disasters" International Charter
- Oversaw and co-wrote a fully-tested and documented Python package to automate RADARSAT-2 image acquisition plan tasks
- Planned the acquisition programs of RADARSAT-2 imagery for research, national security and humanitarian aid operations

#### Transport Canada

Production Support Specialist

June 2015 - November 2015 (6 months)

Ottawa, Ontario, Canada

- Automated government ID card production (Python, openCV, bash)
- Audited and analyzed the workflow for the Inspector Equipment warehouse
- Helped streamline the financial coding for postal services (Excel, VBA).

#### Où Quoi? Salon Urbain

Bartender, Menu Director  
April 2012 - June 2015 (3 years 3 months)  
Gatineau

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## Education

UC Irvine, Extension  
Data Science Certificate, Sciences and Information  
Technologies · (2015 - 2017)

University of Ottawa  
Bachelor of Science (B.Sc.), Geology, Physics · (2007 - 2012)