

# MAXIME LAROCHE

Montréal, Québec

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## EDUCATION

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### Masters of Software Engineering

2023 - 2024

Polytechnique Montréal

GPA : 3,36      Focus on artificial intelligence and data science

### Bachelor of Software Engineering

2020 - 2023

Polytechnique Montréal

GPA : 3,40      Excellence scholarship received at admission.

## PROJECTS

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### Sentiment analysis on american politics

2023

- Collaboration with a team of five to implement a model that can classify opinions by political party
- Use of transformers to classify text
- Develop an aggregator to be able to get the overall opinion of American twitter users
- Use of linear regression to determine most important keywords

### Automatic translator

2022

- Implementation of a transformer to perform automatic English to Sparql translation

## EXPERIENCE

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### Dathub Operations

September 2023 - July 2024

*National Bank of Canada*

- Help operations team handle requests
- Automate the treatment of frequent requests

### Cybersecurity and Machine learning engineer

May - August 2023

*Morgan Stanley*

- Train a Large language model (LLM) to tag architecture documents written in English with relevant internal security policies
- Write security policies in OPA

### Full stack developer

May - August 2022

*Morgan Stanley*

- Design and implementation of a website + back end server using react and spring boot.
- Database deployments based on liquibase
- writing end to end and unit tests

### Service engineering

January - August 2020

*Bombardier*

- Design of data collection and analyzing software made to optimize workflows within the company.
- Learning a new language (VBA) on the spot
- Project made with iterative design
- Ground support equipment design.

## GENERAL KNOWLEDGE

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**Programming languages  
Languages**

Python, Typescript, Java, C++  
French and English