MAXIME LAROCHE

Montréal, Québec

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EDUCATION

Masters of Software Engineering *2023 - 2024*
Polytechnique Montréal
Focus on artificial intelligence and data science

Bachelor of Software Engineering *2020 - 2023*
Polytechnique Montréal
GPA : 3,36 Excellence scholarship received at admission.

PROJECTS

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

Cybersecurity and Machine learning engineer May - August 2023
Morgan Stanley
· Train a Llarge language model (LLM) to tag architecture documents written in English with relevant internal security policies
· Write security policies in OPA

Full stack engineer 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

Programming languages **Python, Typescript, Java, C++**
Languages **French and English**