

Axel Bogos

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🐙 [Github](#)

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EDUCATION

Université de Montréal - Affiliated with MILA

MSc in Computer Science - Specialization in Machine Learning

Montreal, QC

Expected Graduation: May 2023

Concordia University

Honours BSc in Computer Science - Project Supervisor: [Leila Kosseim](#) - GPA: 4.02/4.3

Montreal, QC

2018-2021

Dawson College

DEC Pure and Applied Sciences - Average: 91%

Montreal, QC

2014-2017

EXPERIENCE

Smart Trade

Software Developer Intern

Tokyo, JP

Feb 2020 - April 2020

- o Developed and distributed currency trading algorithms in C++ for Japanese and international clients.
- o Achieved a 160% return rate over 3 years of historical financial data.
- o Provided support for the MT4 platform to internal developers and clients.

IMDS Software

Analyst Programmer Intern

Montreal, QC

May 2019 – Aug 2019

- o Developed customized image processing software in C++ to extract and analyze facial and textual data from large volumes (200,000+) of documents synchronized with large MySQL databases.
- o Implemented a dataset validation tool in C++ and Python to improve facial recognition training datasets.
- o Provided software and hardware support to internal and external users.

PROJECTS

Few-Shots Learning on CIFAR-10 [\[Report\]](#)

February 2021 - May 2021

- o As part of 2 challenges in the context of a deep-learning class, a literature review of the current landscape of few-shots learning methods was conducted.
- o 2 models were proposed, one trained without access to external data beyond CIFAR-10 and one with transfer learning. Both models improved on the at-the-time ratio of model parameters and accuracy.

Fake News Classification [\[Report\]](#)

October 2020 - December 2020

- o Conducted a performance analysis of different models and word embeddings on fake news classification.
- o bi-LSTM and ELECTRA transformer models were used to achieve an 85% accuracy rate in classifying articles from the NELA-GT-2019 dataset.

Reading Comprehension using Transformers Architecture [\[Report\]](#)

September 2020 - December 2020

- o As part of a project supervised by Dr. Leila Kosseim and Sem-Eval 2021, a Bidirectional Encoder Representations from Transformers (BERT) model was used to evaluate the reading comprehension and understanding of abstract meaning in natural language text passages through multiple-choice answers. A 50% accuracy rate (given 5 multiple choices) was achieved.

OtherIndeed [\[Repository\]](#)

July-August 2020

- o Developed a full job posting and application website synchronized with a MySQL database in PHP, HTML, CSS and Javascript.

ADDITIONAL

- o Relevant Coursework: Deep Learning, Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Combinatorics, Data Analytics, Operating Systems, Probabilities & Statistics, Numerical Methods, OOP II.
- o Concordia's Dean's List (2018, 2019, 2020)
- o Recipient of the 15,000\$ Knowledge-First Entrance Scholarship.
- o Programming Languages: Python, Java, C++, PHP, JavaScript, SQL
- o Spoken Languages: native/near-native level in French and English. HSK1 level in Mandarin Chinese. Notions in Japanese.