

## EXPERIENCE

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### DDMAL Lab — *Software Developer*

Montréal, May 2022 - Present

- Developed features for an end-to-end machine learning project leveraging optical music recognition (OMR) to digitize and codify historical music materials.
- Deployed new version of an online music notation software with increased speed and brand new user interface.
- Operated with a team of 4 developers in an Agile environment with a focus on **web development**, improving user experience using tools like **Typescript**, **C++**, and Cypress.

### VISABLI — *Full-Stack Developer*

Remote, May 2022 - Present

- Architected full-stack application (**React**, Node.js, and MongoDB) aimed at helping educators teach design thinking to students.
- Engaged with designers in developer handoff, working autonomously while giving frequent updates to assess and meet product deadlines.

### Government of Canada — *Software Developer Intern*

Ottawa, Sep 2022 - Dec 2022

- Designed workflow with Airflow and Splunk to monitor and visualize multiple databases, scheduling streams of 120+ data points per hour.
- Extended Java SpringBoot API service to handle various data types for analysts.
- Spearheaded project to allow streaming of event data to shareable maps, built with **Python** and ArcGIS.
- Presented in daily scrums and sprint cycles, maintaining various services while developing principal project.

## EDUCATION

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### McGill University — *BM Computer Science and Music Performance*

2018-2023

- Courses: **Algorithms and Data Structures**, Algorithm Design, Software Design, Applied Machine Learning, Reinforcement Learning, **Software Architecture**, Logic and Computation, *etc.*
- Awards: Entrance Scholarship, Lallemand Scholarship for Music Excellence, Tousey Scholarship in Jazz
- 3.51 GPA

## PROJECTS

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### Neume Editor Online (Neon)

May 2022 - Aug 2023

- Overhauled web-based early music notation editor for the SIMSSA project to be used by music scholars across the globe: [ddmal.music.mcgill.ca/Neon/](https://ddmal.music.mcgill.ca/Neon/)

### Personal Portfolio

January 2022

- Created a personal website to showcase projects and extracurricular experiences: [maxzhang.ca](https://maxzhang.ca)

## SKILLS

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**Languages** Python, Java, **Typescript**, Javascript, C++, SQL, HTML/CSS

**Tools** Git, React, Airflow, Spring, Node.js, OracleDB, MongoDB, Cypress, Figma