Yuhao Ma

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Education:

University of British Columbia   Sept. 2019 – May 2023
B.Sc. Computer Science   GPA: 3.95

Concordia University   Now
Master of Applied Computer Science

Skill Highlights:

- Proficient with various programming languages, including C, Java, JS, Python, etc.
- Familiar with different programming tools like Github, Intellij, Bootstrap, etc.
- Have knowledge in computer network, relational database, and machine learning.
- Pretty experienced in communication in teamwork and initiative in learning.

Personal Projects:

- ### Crystal Crypt, a dungeon scrawling game

  Made a game with pygame module. It features attractive arts, supported by my friend, and random generated maps, so that the player will not meet the same levels whenever they play it.

- ### Design Your ICON, an icon generator

  Create simple images with an easy-to-use generator. This tool is perfect for personal use, providing a seamless experience for those looking to create unique visuals.

Coursework Projects:

- ### Database Management for Streaming Application

  Partnered with two classmates, we analyzed the entity-relationship models relevant in the problem. Then we created tables in SQL server and designed a GUI application to let users perform several types of queries, such as filtering or updating the databases. We had grade A for the project in class.

- ### Domain-specific Language for Music Sequencer

  Designed a language for Software Engineer course in a group of five people. It targets at people who want to make music with lines of code. We wrote our own lexical tokens and generated text recognition codes by Antlr, a parser generator tool. Our language allows users to define variables for measures and instruments supported by standard MINI protocol and create music using conditional statements and loops. Fortunately, we won the first place with this project in the project presentation.

- ### Pokemon Database Visualization

  Designed an interactable website showing datasets from the video game Pokemon. The website is made utilizing the D3 module in JavaScript and composed of CSS and HTML configuration. The user-friendly interactions include selection with clicking and filtration with brushing.