

COLIN FANG COMPUTER SCIENCE

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Summary of Qualifications

- Proficient: **Java, C, C++, GML, HTML, CSS**
- Experience in **OOP**
- Tools used: **Eclipse, PuTTY, PyCharm, Gamemaker Studio 2, Atom**
- Soft Skills: **Teamwork, Risk taker, Creative, Fast learner**

Education

Major in Computer Science
Western University

2018 - present

Relevant Experience

C

Software Tools and Systems Programming 2211 **2018 September - December**

- Familiar with navigating Unix and using Unix commands and editors.
- Experience in using arrays, strings, pointers, double pointers, and structures in **C**.
- Designed **C** code to implement a binary search tree using double pointers.

C++

Object-Oriented Design and Analysis 3307 **2019 September - Present**

- Team experience with designing a project in an object-oriented approach
- Prepared UML diagrams and User Stories for project proposal
- Used **C++** to create a simple file manager

Java

Data Structures and Algorithms 2210 **2018 September - December**

- Demonstrated object oriented programming with inheritance involving implementation of interfaces, extension of parent classes, and dynamic binding.
- Experience with data structures like dictionaries, hash tables, binary search trees, AVL trees, multi-way search trees, (2,4) - trees, B-trees, and graphs.
- Thorough understanding of collision handling techniques such as separate chaining, linear probing and double hashing.

GML

Personal Projects https://github.com/colin-fang/Syndra_html **2019 June - Present**

- Developed and learned **Gamemaker Language** through Youtube tutorials from scratch.
- Created a game that implements a basic physics engine, collisions, alarms, sprite animation, viewports, GUI, simple AI, and mouse and keyboard input detection.

HTML & CSS

Personal Website <https://colin-fang.github.io/index.html> **2019 August - Present**

- Built personal website with **HTML** and **CSS** from scratch.
- Designed website layout and customized visual elements.
- **HTML** friendly version of personal game displayed in browser without the use of physics.