

Conrad Fukuzawa

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Education

HBsc. Computer Science, *University of Toronto* 2019 - 2023

- cGPA: (3.84/4.00)
- Dean's List - Summer 2020, Winter 2021
- Relevant Courses: Software Design, Data Structures and Analysis, Probability & Statistics, Calculus, Computer Organization, Operating Systems, Algorithms, Information Security, Linear Algebra

Skills

Languages: Python, C, Java, Javascript, HTML, CSS, MIPS Assembly

Developer Tools: Visual Studio Code, Eclipse, Pycharm, Vim, Netlify

Tools and Technologies: Git, React JS, Pygame, JavaFX, Linux

Projects

Transit Fare System | *Java, JavaFX, Scrum*

- Simulated simple transit system tracking users of bus stations and train stations
- Created through **Scrum** development with group
- Implemented **Object-Oriented Programming** and **Design Patterns** such as Inheritance and Model-View-Controller

System Call Hijacker | *C, Kernel Programming, Multiprocessing, Semaphores*

- Hijacked a system call to allow intercepting other system calls
- Tracks processes by id to allow interception for only specific processes
- Used VMWare Workstation to run program on **Linux OS**

Sudoku Solver | *Python, Pygame*

- Created an application to solve any Sudoku puzzle through **Backtracking Algorithm**
- Developed using Pygame to visualize the Sudoku board and solution
- Implemented using **MVC** pattern to increase modularity and readability

Assembly Plane Game | *MIPS assembly*

- Developed survival game where your plane has to dodge incoming planes, the memory contained RGB values for each pixel on screen and reads this for hit detection
- Received distinction as one of the best projects in the course

Personal Website (WIP) | *React, HTML, CSS, Javascript*

- Made using **React JS** to learn the basics of the library
- Published using **Netlify** to allow linking to Github repository for Continuous Development