

Skills

Languages Java, Python, C++, C, JavaScript, HTML, CSS, Bash, SQL
Frameworks/Tools Git, Flask, Tkinter, Swing

Projects

WEBSITE

Jan. 2021 to Present

- Constructed portfolio website from scratch and deployed to GitHub Pages.
- Implemented a theme switcher using **CSS** and **JavaScript**.

ANTI-RONA LOCK SYSTEM

Oct. to Dec. 2020

- Integrated our software components using **object-oriented programming** and **functional programming** in **Python**.
- Designed and implemented a **graphical user interface** using **Tkinter**.
- Communicated effectively with everyone, allowing integration and completion of the project one week before the deadline.
- Debugged my teammate's code, a foundational part of our project, successfully.
- Derived and implemented the mathematical formulae for distance calculations in **Python**.

CHESS

May to June 2019

- Built Chess from scratch with **Java** and **object-oriented programming** principles.
- Created a complete **graphical user interface** with movement animations using Java's **Swing** toolkit.
- Implemented undo/redo, saving/loading, and additional features.

GAMES

June to Sept. 2020

- Implemented Ultimate tic-tac-toe using **Java** and Checkers, Connect Four and Tetris using **C++**
- Applied **object-oriented programming** principles.
- Implemented algorithms for move/input validation, "Game over" checks, et cetera.

Experience

Kumon Educational Japan Co. Ltd.

Cambridge ON, Canada

GRADER

2017 to 2018

- Graded thousands of worksheets and helped students discover solutions to math problems.

Awards

UWATERLOO PRESIDENT'S SCHOLARSHIP OF DISTINCTION

2020

- 95+ admission average

AP SCHOLAR WITH DISTINCTION

2020

- 5/5 on all AP exams

CAYLEY (MATH) CONTEST SCHOOL CHAMPION

2018

- Top 1% of 24,709 contestants

Education

University of Waterloo

Waterloo ON, Canada

CANDIDATE FOR BACHELOR OF SOFTWARE ENGINEERING

Sept. 2020 to Apr. 2025

- 96.64 Cumulative GPA