Jennifer Li

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SKILLS & INTERESTS

Programming/Scripting Languages: Java, Python, HTML, CSS, Processing, Arduino, Matlab

Frameworks/Tools: Git, Github, Bootstrap CSS, React.js, Autodesk Inventor, Raspberry Pi

Interests: Full-stack development, material science, behavioural development/psychology

PROJECTS

Surgical Tool Container Sterilisation
- Implemented Python program to sort boxes by colour with robotic arm
- Worked in Linux environment with Raspberry pi
- Modelled a container that allowed medical sterilisation and secure transfer of surgical tools in Autodesk Inventor

Airport Simulation [Github](#)
- Developed a Java program that simulates the departure and arrival of flights using Stacks, Queues and File Reading/Writing
- Created GUI using Jframe library
- Implemented error handling for flight numbers containing symbols

Sort Search [Github](#)
- Utilised ArrayList to store names from a file
- Implemented various sorting algorithms (insertion sort, selection sort, bubble sort) in Java to organise file data
- Implemented real-time binary search GUI in JFrame library to search for the location of a name in the sorted list

Connect Square [Github](#)
- Utilised Object Oriented Programming concepts to create a variation on Tetris
- Leveraged 2D Arrays for tetris grid logic
- Integrated Switch Statements to colour the different tetris pieces
- Leveraged timers in game logic

PROFESSIONAL DEVELOPMENT

Hack the North 2021, University of Waterloo	**Waterloo, ON**
Team Project	*September 2021*

- Created a to do list web application using React.js
- Relevant workshops attended: Intro to APIs, Intro to Next.js, AI workshop, React.js workshop

Code Academy	**Online Course**
Online Course	*August 2021*

- HTML, CSS, Bootstrap CSS Framework (20 hours)

Hack the North 2019, University of Waterloo	**Waterloo, ON**
Event	*September 2019*

EDUCATION

McMaster University	**Hamilton, ON**
Software Engineering, Bachelor of Engineering Co-op	*September 2021-April 2025*

- Relevant Courses: Engineering Calculus I, Engineering Calculus II, Linear Algebra, Mechanics, Electricity and Magnetic Fields, General Chemistry, Cornerstone Design Projects in Engineering