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

```css
  inset: 0;

  background: linear-gradient(
    to bottom right, #6889FF 0%, #C668FF 100%);

  z-index: -1;
  margin: -4px;
  border-radius: 8px;
}
```

bg-primary-{50-900}