# Alyssa Kou

778-957-9566                     alyssahkou04@gmail.com                     Surrey

## Technical Skills

- Languages: C++, C, CSS, Git, HTML, Java, Javascript, Python, X86-64 Assembly
- Software/Frameworks: GitHub, IDLE, IntelliJ, MatLab, Microsoft, Visual Studio Code
- Operating Systems: macOS, Windows, Linux

## Education

**Bachelor of Applied Science, Major in Computing Science,**                     Sep 2022 - In progress
**Minor in Criminology**

Simon Fraser University, Burnaby

## Technical Project Experience

**Maze Game**                     Feb 2024 - Present
IntelliJ; Languages: Java, Git; Simon Fraser University

- Using object-oriented design and programming to optimize code
- Collaborating efficiently with group members through the use of Git and GitHub

**Personal Website** (alyssa-k528.github.io)                     Dec 2023 - Jan 2024
VS Code; Languages: HTML, Javascript, CSS

- Developed a responsive personal website using HTML, CSS, and Javascript
- Enhancing user experience and user interface design by implementing buttons that lead users to different web pages for self-exploration

**Turning Over a New Leaf**                     Oct 2023
Fall Hacks, Simon Fraser University

- Worked with a team of 4 to create a user-interactable educational game within the limit of 12 hours
- Used Unity with C# scripts to create a user-friendly and responsive GUI to allow user interaction with mini-games and the main menu

**Birthday Lookup System**                     Jan 2023 - April 2023
VSCode; Language: C/C++; Simon Fraser University

- Applied object-oriented programming principles along with ADTs and created binary search trees to sort a list of birthdays
- Checked for heap memory leaks using Valgrind, ensuring that dynamically allocated variables were deallocated correctly

**Blackfoot Language App**                     Sept 2022 - Dec 2022
VSCode; Language: Python; Simon Fraser University

- Implemented a program that can teach the user the indigenous language, Blackfoot
- Tested and debugged the code using print statements to diagnose and address issues

## Work Experience

**Japanese Teacher Assistant**                     July 2022 - Aug 2022
Canada Stay Holding Inc, White Rock

- Taught Japanese students the fundamentals of English, reducing their grammatical errors
- Worked with teachers in aiding the students to learn about Canadian culture