**Xinyu Liu**

Computer Science Major, 2nd Year | 778-927-7466 | xinyuliu910@gmail.com

**Technical Skills**

***Programming Languages:*** Java, Python, C language, Dr Racket

***Tools:*** IntelliJ, GitHub, Raspberry Pi

**Projects**

***PomoTodo Android app (Academic Project)*** *Feb – Apr 2019*

* Designed and partial implemented an Android to-do list app that help with task management
* Converted model elements to JSON objects and parsed the JSON objects in the JSONArray represented by the input string into individual tasks
* Read and wrote to a JSON data file in order to add, delete or edit tasks
* Used GUI to demonstrate the list view of tasks and their features
* Used JUnit test to debug and ensured 100% code coverage

Skills: Java, JUnit test

***Robot Car (Personal Project)*** *Mar – Jun 2018*

* Built a remote-control and obstacle avoiding robot car using Raspberry Pi and Python
* Wrote a GUI class to control the direction buttons.
* Connected the motors to the Raspberry Pi and controlled the movement of the motors using GPIO pins.
* Included an ultrasonic sensor to avoid the car running into the wall

Skills: Python, Raspberry Pi, Ultrasonic sensor, Motors and Associated Wiring

***Tic Tac Toe Game (Academic Project)*** *Dec 2017 – Feb 2018*

* Developed a player vs computer Python game
* Increased the difficulty of the game by blocking player’s possible winning positions

Skills: Python

**Work/Volunteer Experience**

***Educator (Volunteer),*** *Bright Horizons Chinese School Inc., Saskatoon, SK Sep 2017 – Jul 2018*

* Helped to instruct classes of about 10 elementary school students in engaging ways.
* Communicated with other teachers and kids efficiently.

**Education**

***University of British Columbia, Vancouver, BC*** *Sep 2018 - Present*

2nd Year Bachelor of Science, Computer Science Major