

Summery of Qualifications

- Knowledge of C++,Java ,XML, Android App Development, Python3&2,Flask,HTML,CSS,Jquery, Bootstrap, JavaScript, Linux system, Bash Scripting
- Expertise in GIMP and Microsoft Office-Outlook, Word, Excel, PowerPoint
- Strong self learning skills developed through learning Python and Web development independently

Relevant Projects

- **Gimp Project** *HTML, CSS, jQuery, Bootstrap* Jul 2017
A website to display personal image projects processed using GIMP.
Incorporated jQuery plugin for rotating and flipping animations, Google Map, and profile card for information display.
- **Robots and Poems** *HTML ,CSS, jQuery, JavaScript* Jul 2017
Two robots compete in a running race to decide which of their favorite poem will be displayed on the website.
Used JavaScript and jQuery to generate animation and detect position of robot.
Use jQuery to access CSS element to show change.
- **Web Bookmark and Task Tracker** *JavaScript, HTML, JSON, Bootstrap*
Jun 2017
A website to store favorite websites and add descriptions and a website to keep track of task, urgency, time required and person assigned to.
Use JavaScript to access local storage and translate to JSON to store the intake information. Use HTML DOM to add intake information to display. Websites added can be easily deleted from storage and opened in another tab. Tasks can be changed to "done" or deleted.
- **Gather Diamond Game** *Pygame, Python* Apr 2017
A game where two players gain points by collecting diamond. Use keyboard and mouse to move players and to identify player's position.
and functions test if player can move any of the four ways. Implement boundary and collision detection of the players' movement. Planned project design using pictures and points. Used three different pictures for each character to show moving. Incorporated music for background and sound for gaining point.
- **Four Sensors** *Java(Android Studio),XML* Feb 2017
An app accesses sensors on cellphone, display and graph its data and recognize four different hand gestures using Finite State Machine and UML diagram.
Smooth data using Finite-Element Filter. Used XML to adjust button and graph display.
- **Lake Tahoe** *C++* Nov 2017
A program take in csv file ,clean raw data and perform area, volume and elevation calculations with smoothed data.
Debugging and testing with compiler errors.

E-mail // ry3liu@edu.uwaterloo.ca

GitHub // [ry3liu](https://github.com/ry3liu)

Website // <http://joyceliu.me/>

Work Experience:

Help Desk Analyst

Beijing Education Scientific Research Network

May 2017-

Aug 2017

Front desk to address user inquiry and provide technical assistance through phone, email or in person. Conduct website and user experience testing and report. Collaborate with other engineers to improve user experience. Design flyers and book covers for advertisements. Conduct presentation and guide for visitors using PowerPoints.