

# Shi-Chun, Jou

**Expected Grad date:** 2018 / May | **Availability:** up to 16 months

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**Website:** <http://timothyjou.github.io/> |

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## TECHNICAL SKILLS

Programming	Web	Software	Testing
<ul style="list-style-type: none"><li>• Java &amp; OOP</li><li>• C++ *</li><li>• MATLAB*</li><li>• Swift*</li></ul>	<ul style="list-style-type: none"><li>• HTML*</li><li>• CSS*</li></ul>	<ul style="list-style-type: none"><li>• IntelliJ</li><li>• Android Studio</li><li>• MATLAB IDE*</li><li>• Xcode*</li></ul>	<ul style="list-style-type: none"><li>• JUNIT tests</li><li>• GDB</li></ul>

\*currently learning

## TECHNICAL PROJECTS

### Personal Website (Personal)

Feb 2016 - Present

- Constructed and designed a website in HTML, and CSS using the Bootstrap framework
- Hosted and updated the website via Github from the command line
- Created interactive content by adding animations using CSS

### Hiker's Companion Application (Personal/2016 NW Hackathon)

Feb 2016

- An android application that displays the relevant information that are useful for hiking
- Designed the user interface to display the information in a clear manner
- Constructed methods to obtain and update the information from the hardware as location changes

### Local Ghost Gear Application (Personal/2016 Fishackathon)

Apr 2016

- An iOS application that allows the user to store any lost gear sightings locally on their iOS device
- Constructed methods to obtain and store the geo location from the device permanently as a table

### Mind The Gap (Academic)

Sep 2015 - Dec 2015

- An android application that allows the user to see the arrival times for a London subway in real time
- Designed and implemented a parser to extract station location and arrival times in JSON format from the London tube TFL API
- Constructed methods to display the stations, lines, branches and closest station based on user's location data on maps using Google API
- Debugged with JUNIT tests to capture early errors with the help of IntelliJ

### Puzzle Solver (Academic)

Jan 2016 - May 2016

- A puzzle solver that is able to solve a Sudoku, slider, maze puzzle by using either DFS, BFS or BestFS
- Constructed the queue data structure using Linked list and Array for the purpose of breadth first search
- Implemented the priority queue data structure using Heaps for the purpose of best first search

## TECHINICAL EXTRACURRICULAR ACTIVITIES

### Research Assistant

Dec 2015 – May 2016

Chou Lab (Department of Chemistry – UBC)

- Created efficient MATLAB scripts to analyze large amounts of super resolution images generated from super resolution microscope (STORM)
- Implemented multiple analysis automation scripts to increase the efficiency and throughput of data analysis by over 75%
- Researched and constructed multiple Pair Correlation analyses to calculate the correlation between the images from the super resolution microscope

**Project Euler (Personal)**

Sep 2015 - Present

- Solved 15 large scale mathematical problems on projecteuler.net using Java
- Researched and implemented several algorithms such as Sieve of Eratosthenes, Euclid's Pythagorean number in order to solve the problem efficiently

**Hackathons (Personal)**

Sep 2015 - Present

- Participated in a team of 2 at NW Hackathon (Feb 2016)
- Participated in a team of 2 at Fishackathon (Apr 2016)

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**WORK EXPERIENCES**

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**Research Assistant**

Sep 2014 - Aug 2015

Gold Lab (Life Science Centre – UBC)

- Assisted in conducting microbiological and biochemical experiments and laboratory analysis
- Specialized in microscope imaging and gene expression knock down
- Participated in a research project that would be published in the year of 2017

**Lab Assistant**

May 2014 - May 2015

Canadian Centre for the Culturing of Microorganism (CCCM - UBC )

- Maintained various fungal and algae culture to create a library of fungi and algae for easy access
- Propagated fungi and algae by using various aseptic technique and culturing them in the required media

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**EDUCATION & AWARDS**

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**Bachelor of Computer Science (B.CS)**

Sep 2015 - Present

University of British Columbia, Vancouver, BC, Canada

- GPA: 80.9% (cumulative) 83.3% (CPSC, MATH & STAT)

**Bachelor of Science (B.Sc) - Major in Microbiology and Immunology**

Sep 2011- Apr 2015

University of British Columbia, Vancouver, BC, Canada

- Dean's Honor List, 2011,2012, 2013

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**COMMUNITY SERVICE**

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**Junior Auxiliary Volunteer**

Jul 2009 - Present

Peace Arch Hospital Emergency Room, White Rock

- Provided enhanced communications, information and support to patients/visitors
- Served as a liaison between staff and patients/visitors to facilitate the transfer of information
- Worked under the high paced environment in a team to ensure the needs of patients are met

**Internal Director**

Sep 2011 - May 2014

UBC Taiwanese Association, Vancouver

- Organized networking events for large group of club members (~100 people) with a team of directors to promote the culture of Taiwan
- Negotiated student discount with various external sponsors for the club members

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**SKILLS AND INTERESTS**

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| • Violin | • Photography | • Hiking     |
| • Piano  | • Cycling     | • Basketball |