



## DANIEL RYU

YEAR 3, BUSINESS AND COMPUTER SCIENCE MAJOR

Ph: 999.999.9999

github.com/dryu99  
linkedin.com/in/danielryu99

anemail@domain.com

### TECHNICAL SKILLS

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**Programming:** Java | C | C++ | HTML5\* | CSS\* | JavaScript\*

**Tools/Frameworks:** Visual Studio Code | IntelliJ IDEA | Git | React\*

\*currently acquiring

### TECHNICAL PROJECTS

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**The Odin Project** (Open Source Project / Online Curriculum)

Nov 2018-Present

- Contribute to the Odin Project's GitHub repository by utilizing various languages and frameworks to construct web applications accessible by public.
- Modeled a library database that users can add and remove books from.
  - Designed and implemented table interface and book submission form with HTML5, CSS and JavaScript.
  - Learned and applied JavaScript prototypes to better structure and manipulate book objects.
- Implemented an Etch-a-Sketch application, acts as a re-sizeable drawing pad.
  - Utilized HTML5, CSS, and JavaScript to implement sketch application's graphic user interface, and its mouseover drawing and re-sizing functionality.
- Reproduced a calculator which users can operate for basic arithmetic computations with mouse or keyboard clicks.
  - Improved JavaScript abilities by implementing click event handlers and manipulating a calculator object.

**Cross-Platform Mobile Map Application** (Volunteer)

Mar 2019-Apr 2019

- Collaborated with volunteers in the UBC Code the Change Foundation to produce an injection site map application for Vancouver's local non-profit group, Overdose Prevention Society.
- Implemented and debugged map features, such as custom markers and popups, by using JavaScript and React Native.
- Applied GitHub workflow to collectively work and communicate with team members.

**Mobile Activity Recommender Application** (nwHacks, Hackathon)

Jan 2019

- Worked in a team of 3 to create an Android application that recommends different activities based on weather, location, and user preferences. Primarily contributed to UI/UX development.

**Budgeting Application** (Academic)

Sep 2018-Dec 2018

- Built an application using Java and IntelliJ IDEA that records expenses based on dates and categories.
- Implemented graphic user interface with the Java Swing library and utilized JUnit for unit testing.

### WORK EXPERIENCE

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**Teaching Assistant (Systematic Program Design)**, UBC Dept. of Computer Science, Vancouver, BC

Sep 2018-Present

- Provided one-on-one and group mentorship for classes of 30 students by conducting weekly labs to enhance understanding of systematic design and fundamental programming concepts such as recursion, trees, and graphs.
- Minimized grading turnaround time by working mindfully within established timelines for semi-weekly assignments.

**Valet Attendant**, The Bicycle Valet, Vancouver, BC

Aug 2016-Sep 2018

- Valeted hundreds of bikes around the Lower Mainland by setting up fenced perimeters, parking and returning bikes, and professionally interacting with customers.

### EDUCATION

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**Bachelor of Commerce**, UBC Sauder School of Business, Vancouver, BC

Completion: 2023

- **Specialization:** Combined Major in Business and Computer Science Accumulated GPA: 89% (4.30/4.33)
- **Awards and Scholarships:** UBC Trek Excellence Scholarship, 2018 (\$1500 - awarded for top academic placement), UBC Dorothy and Arthur Holt Scholarship, 2018 (\$400 - awarded for high academic achievement)
- **Key Courses:** Systematic Program Design (100%), Software Construction (95%), Introduction to Computer Systems (92%), Basic Algorithms and Data Structures (91%)