

Jack Hong

EDUCATION

University of British Columbia, Vancouver BC — 2013–Present

Combined Major in Computer Science and Physics, 3rd year

Relevant completed courses:

- CPSC 320 Intermediate Algorithm Design and Analysis
- CPSC 221 Algorithms and Data Structures (using C+)
- CPSC 213 Introduction to Computer Systems (using C)
- CPSC 210 Software Construction (using Java)
- CPSC 110 Computation, Programs, and Programming (using Racket)

SKILLS

- **Programming languages:** Working knowledge of Java, C++, C, R, and Racket
- **Web development:** Proficient with HTML, CSS, and Javascript
- **Tools:** Familiar with IntelliJ IDEA, Bash, Vim, Dr. Racket
- Fluent in English, French and Mandarin

TECHNICAL PROJECTS

GitHub: <https://github.com/jackhong6>

Restaurant Quiz - Android Application (Java)

- Used IntelliJ IDEA for code development and version control
- Used Google Maps and Yelp APIs to locate and plot paths to restaurants
- Implemented a bonus hints feature for extra credit

Simple Machine Computer Model

- Implemented a Java program that simulates a computer system
- Wrote assembly code for the simple machine that implemented loops, if statements, and function calls

Snake Game (Racket)

- Implemented a snake game using a systematic approach to program design
- Refactored the program numerous times to add extra functionality such as food, having the snake grow and additional game over conditions

ePortfolio

- Created a personal website from scratch using a simple text editor.
- Included basic HTML, CSS, and Javascript features



WORK EXPERIENCE

Lifeguard and swimming instructor, City of Richmond — May 2013 - Present

- Work in a team to supervise the pool, resolve patron concerns, and treat injuries
- Teach the Red Cross swimming programs to toddlers, kids and adults
 - ❖ Create engaging long term and short term lesson plans
 - ❖ Provide written and oral feedback to parents and swimmers

Teaching Assistant (CPSC 101), UBC — September 2014 - December 2014

- Lead students through labs where they developed a personal website
- Helped groups manage their term projects by reviewing project proposals and progress reports
- Reviewed weekly reading questions and provide a summary of common issues to the professor
- Graded assignments, quizzes, labs and exams

AWARDS AND ACHIEVEMENTS

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| • UBC Entrance Award | 2013 |
| • BC Graduation Program Examinations Scholarship | 2013 |
| • Grade 12 District Scholarship Award | 2013 |
| • ICBC "Your Ad Here" contest - Best statement award | 2013 |

HOBBIES AND INTERESTS

In addition to computers, I am also fascinated by modern physics and enjoy reading popular physics books and articles. I am currently reading Hawking's *A Brief History of Time* and I am finding it to be an excellent review of concepts I've already learned and an interesting preview of things to come. I also enjoy watching anime and am learning Japanese as an elective.

To learn more about me and my projects, visit my website at:

<http://www.ugrad.cs.ubc.ca/~c2c9/index.html>