





# Haydn Keung

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**Languages:** Java, C, C++, C#, Python

**Tools and Frameworks:** Git, GitHub, Unity Engine, Android Studio, HTML5, Arduino, Foundations 6

## Projects

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### Online Multiplayer Shooter Game (C#, Unity Engine, Photon Framework) 2018

- 2D cross platform multiplayer space shooter game which incorporates mechanics from space simulations
- Utilized Unity's physics engine to predict movement of players to reduce lag due to network latency
- Game is built using OOP to make code clean and easily maintainable

### Scheduler (Java, Android Studio) 2018

- Multiscreen interactive Android app using Android Studio to keep track of schedules
- Incorporated functionalities such as sending notifications when events are approaching
- Utilized multithreading to separate tasks from main thread to prevent lag

### RSA Encryption Algorithm (C) 2018

- Implementation of RSA encryption using C, which can be used to encrypt and decrypt messages using a distinct public and private key

## Experience

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### IT Support – North Growth Management 2017–2018

- Responsible for software and hardware deployment, as well as troubleshooting technical problems
- Job as IT support at Vancouver based investment firm

### Teaching Assistant – Kitsilano Secondary 2015–2017

- Created solution keys and assisted students with assignments
- Teaching assistant for Java and C++ courses in high school

## Achievements

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### UBC Physics Olympics 2018

- 3rd place out of 722 students in UBC's annual physics Olympics lab event

### Canadian Computing Competition 2018

- Distinction in Waterloo Canadian Computing contest (Senior division)

### Founder of Coding Club 2017–2018

- Club to prepare students for competitive coding and advocate STEM literacy among younger students
- As a result, more than 80% of members achieved distinction in Waterloo's annual computing contest

### National Public Speaking Contest 2015–2018

- Solid communication developed through competing in the national French public speaking contest (concours d'art oratoire) 4 times

## Education

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### Candidate for Bachelor of Software Engineering 2018–2023

- University of Waterloo, Waterloo, Ontario, Canada