





# Haydn Keung

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**Languages:** C#, Java, C/C++, Python, HTML5

**Technology:** Git/GitHub, Unity Engine, Android Studio, Foundations 6, Adobe Illustrator, Arduino

## Projects

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

- Developed a 2D online multiplayer space shooter game using Photon Networking API
- Utilized Unity's physics engine to predict movement of players to reduce lag due to network latency
- Objective of the game is to shoot down the other player's space ship, before they shoot yours down
- Game is built using OOP to make code clean and easily maintainable

### Scheduler (JAVA, XML, Android Studio) 2018

- Developed a multiscreen interactive Android app using Android Studio to keep track of a schedule
- Incorporated functionalities such as sending notifications when scheduled event is approaching to accommodate for user's needs and preferences
- Utilized multithreading to separate heavy lifting from main thread to provide smooth user experience

### RSA Encryption Algorithm (C) 2018

- Implementation of RSA encryption using C, which can be used to encrypt 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.
- Summer 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 the Java and C++ course 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

- Founder of coding club to prepare students for competitive coding and advocate STEM to younger students
- As a result, more than 80% of members achieved distinction in the Waterloo 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