|  |  |  |
| --- | --- | --- |
| Haydn Keung | haydnkeung.me | github.com/haydnkeung |
| hkeung@uwaterloo.ca | linkedin.com/in/haydnkeung |

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

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

# Projects

### **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

### **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

### **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’s annual 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

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

* University of Waterloo, Waterloo, Ontario, Canada