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

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

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

# Projects

### **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

### **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

### **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

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

* University of Waterloo, Waterloo, Ontario, Canada