|  |  |  |
| --- | --- | --- |
| Haydn Keung | https://github.com/haydnkeung | hkeung@uwaterloo.ca |
| http://haydnkeung.me | (778)-939-1585 |

**Languages:** C#, Java, C/C++, HTML, CSS

**Technology:** Unity3D, Android Studio, Foundations 6, Adobe Illustrator, Arduino, Git/GitHub

# Projects

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

* Developed a 2D online multiplayer space shooter game using Photon Networking API, where the objective of the game is to shoot down the other player’s space ship, before they shoot yours down.
* Utilized Unity’s physics engine to lerp and 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, XML, Android Studio) 2018

* Developed an interactive Android app using Android Studio to keep track of a schedule and displays time till next scheduled event to help with time management.
* Incorporated functionalities such as sending notifications when scheduled event is approaching to accommodate for user’s needs and preferences.
* Created all the UI with vector art using Adobe Illustrator and Google’s design guidelines.

### 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.

# Work Experience & Volunteering

### 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 course, 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 – Present

University of Waterloo, Waterloo, Ontario, Canada