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| Haydn Keung | haydnkeung.me | github.com/haydnkeung |
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**Languages:** Java, C++, Python, SQL, C#, C, Scala, Kotlin, Groovy, VHDL

**Tools:** Android Studio, Unity Engine, PostgreSQL, MySQL, .NET, Flask, Gradle, Unix

# Experience

### **Software Engineer Intern** | Madoor International Inc. May 2019 – Aug 2019

*Java, Kotlin, Android, MySQL, SQL*

* Collaborated with the backend developer to implement a payment system supporting Google Pay, WeChat Pay and PayPal
* Developed an internal tool using Java and Groovy to automate unit tests before deployment, reducing deployment time by more than an hour
* Eliminated redundant queries and implemented a caching mechanism on the Android app, reducing loading time by nearly 50%
* Re-factored the implementation of the UI on the Android app, increasing the rendering speed by more than 3x

### **IT Support** | North Growth Management Ltd. May 2018 – Aug 2018

*MS SQL*

* Worked with database administrator to connect new computers to a MS SQL database
* Installed and configured a new server in a server farm

### **Founder of Coding Club** | Kitsilano Secondary Sep 2017 – May 2018

*Java, Python*

* Lead a team of students to compete in national level computing contests
* 60% of members achieved distinction in Waterloo’s Computing Contest
* Taught students how to build Android apps and Java applet applications
* Advocated STEM literacy among young students

# Projects

### **Chatting Forum** Aug 2019

*Python, Flask, PostgreSQL*

* Built an online chatting forum using RESTful API
* The biggest challenge for this project was patching SQL and XSS injection attacks

### **Online Multiplayer Shooter** Dec 2018

*C#, Unity Engine, Photon Networking*

* Built 2D multiplayer game incorporating mechanics from space simulations
* Configured networking so players can connect to different servers hosted on the cloud
* Wrote regression to predict the movement of game objects and reduce lag due to network latency

# Achievements

### **3rd in UBC Physics Olympics** Mar 2018

* Obtained 3rd place out of 722 students in UBC’s annual physics Olympics lab event

### **Distinction in Senior Canadian Computing Competition** Feb 2018

* Achieved distinction in Waterloo’s annual Canadian Computing contest (Senior division)

# Education

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

* University of Waterloo, Waterloo, Ontario, Canada