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

**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*

* Collaborated with backend developer to implement a payment system supporting Google Pay, WeChat Pay and PayPal processing up to $500 per transaction
* Developed an internal tool using Java and Groovy to automate pre-deployment tests, reducing deployment time by more than an hour
* Implemented in-app caching, reducing loading time by nearly 50%
* Built a UI rendering library using Java, increasing the rendering speed by 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 Windows 2012 server for keeping track of client information and financial data

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

*Java, Python*

* Lead a team of high school students to compete in Waterloo’s annual 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
* Wrote function for cleaning input data to prevent SQL and XSS injection attacks

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

*C#, Unity Engine, Photon Networking*

* Built 2D multiplayer game incorporating principals of classical mechanics
* Configured networking so players can connect to different servers hosted on the cloud
* Wrote interpolations to predict the movement of game objects to 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