





# Haydn Keung

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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*

- Implemented a payment system for the Android app 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 applet applications using Java
- Advocated STEM literacy among young students

## Projects

**Chatify**

Aug 2019

*Python, Flask, PostgreSQL*

- Built an online chatting forum using RESTful principals
- Created a database in PostgreSQL for storing chat history
- Wrote function for cleaning input data to prevent SQL and XSS injection attacks

**Online Multiplayer Shooter**

Dec 2018

*C#, Unity Engine, Photon Networking*

- Built a 2D multiplayer space simulation game
- Configured networking to host the game on cloud using Photon Networking API
- Wrote interpolations to predict movement of game objects, reducing lag due to network latency

## Achievements

**3<sup>rd</sup> in UBC Physics Olympics**

Mar 2018

- Obtained 3<sup>rd</sup> 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