





Haydn Keung

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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 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