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
- 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