JI HO OH

2A HONOURS MATHEMATICS

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SKILLS

PROGRAMMING: Java, Kotlin, Swift, Python

WEB DEVELOPMENT: HTML, CSS, JavaScript, Vue.js, SCSS **TECHNOLOGIES:** Android API, Git, WordPress REST API

EMPLOYMENT

Web and Mobile App Developer

Jan. 2020 - Apr. 2020

DC Canada Education Publishing, Ottawa, ON

Website development: Maintaining and developing new content/features on a WordPress powered website. Integrated MotionPay (AliPay and WeChat Pay) into the payment system for the Chinese domain. Used **PHP** to send order details to MotionPay's API which generated a QR code to display. Used **WordPress REST API** to add the product into the user's account once the QR code had been scanned.

Mobile app development: Solo development on an Android mobile app that is used to support an online e-book reading platform titled One Story a Day (see below).

PROJECTS

Course Grade Calculator

May 2019 - Sep. 2019

Android app that tracks grades for school courses. Uses Android dependencies, such as:

- **Room** which allows for data to be saved in a local database and provides a layer of abstraction over SQLite. Used due to its ease of use when storing data.
- **LifeCycle** which ties data received from the repository to the lifecycle of a view, such as an activity or a fragment. Used to tie changes in the database to changes in the shown view.
- **Coroutines** which allows for asynchronous and concurrent programming (similar to threads). Used to keep long operations, such as getting data, off the main thread to avoid delays when showing views.

One Story a Day

Feb. 2020 - Apr. 2020

Android app that replicates "One Story a Day", a children's book website.

- Communicates with the website's **REST API** to handle account details such as username, email, and password.
- Used **JWT** authentication to log the user in. Done by either validating the user credentials (username and password) or by verifying a stored **JSON** token which was received from logging in previously.
- Created and handled an **SQLite database** that managed the relationship between programs and books; some books contained books themselves.
- Used a web view to display web pages that contained an embedded online reader. The app also had to send the **JSON token** which allowed the reader to be displayed in order to prevent people from reading it without payment.

Personal Website

Mar. 2020 - Current

A personal website to advertise myself and to start getting into modern web development past the standard HTML, CSS, and JavaScript.

- Uses **Vue.JS** as a framework. It's a single page application that uses **Vue Router** to "simulate" different pages.
- Uses **SCSS**, a CSS preprocessor

EDUCATION

University of Waterloo

Sep. 2018 - Current

Bachelor of Maths Mathematics 2023

Received the President's Scholarship of Distinction, an entrance scholarship for an admission average of 95% or higher

British International School Vietnam

Sep. 2003 - May 2018

IB Diploma 2018

IB score of 41/45 (Top 5% in world)

Took part in the UKMT Senior Mathematical Challenge and received the gold award (83+points)