

# JH OH

## 3B HONOURS MATHEMATICS

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## SKILLS

**ANDROID DEVELOPMENT:** Java, Kotlin, Room (SQLite), Dagger 2, Data binding  
**WEB DEVELOPMENT:** HTML, (S)CSS, Javascript, Typescript, Vue.js, WordPress REST API  
**GROUP TOOLS:** Git, Jira, Agile

## EMPLOYMENT

### WEB/ANDROID DEVELOPER

JAN. '20 - APR. '20

DC CANADA EDUCATION PUBLISHING

**Website Developer:** 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.

**Android Developer:** 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).

### ANDROID/INNOVATION DEVELOPER

SEPT. '20 - DEC. '20

INNOVAPOST

**Android Developer:** Fixed production bugs and implemented new features for the Canada Post mobile application, such as a barcode generated for users on a failure path. Worked in an agile-scrum environment.

**'Innovation Garage' Developer:** Researched the possibility of implementing progressive registration and OAuth 2.0 on the application. Was part of a pilot team to eliminate the need for ring scanners and instead use wrist-mounted PDTs which operated based on the accelerometer and gravimeter.

### ANDROID DEVELOPER

MAY '21 - AUG. '21

SCORE MEDIA AND GAMING

Part of the Score Media app for Android team.

- Worked on migrating the application from Kotlin Synthetics to View Binding as well as fixing bugs and mitigating tech debt.
- Studied a new architecture that used the MVVM design pattern, which recycled the same fragment for different screens and populated them with unique ViewHolders using Adapters.
- Researched the methods of obtaining views after the deprecation of Kotlin Synthetics and how they could integrate into the unique architecture of the application

## PROJECTS

### ONE STORY A DAY

FEB. '20 - APR. '20

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 that 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. '20 - CURRENT

A personal website (<https://ohjiho.dev>) to self-advertise and to start getting into modern web development past the standard HTML, CSS, and JavaScript.

- Uses Vue.js as a framework (through Vue CLI). It's a single page application that uses Vue Router to "simulate" different pages.
- Uses Typescript, a more syntactical version of Javascript, and SCSS, a CSS preprocessor

## EDUCATION

### UNIVERSITY OF WATERLOO

SEPT. '18 - CURRENT

Bachelor of Maths Mathematics 2023

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