**Anderson Hsieh**

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Skills

* **Technical:** Native Android, Espresso, Spring Boot, MySQL, React, React Native,
* **Programming languages:** Java, Kotlin, SQL, JavaScript, HTML, CSS, C++
* **Other:** Git**,** Agile Development: Scrum**,** Computer Networks, Public speaking

Projects

**WMMA\_WhereMyMoneyAt : Full Stack CRUD Application |** [**Github: AndroidApp**](https://github.com/AndersonHsieh0330/WMMA_WhereMyMoneyAt_AndroidApp) **|** [**Github: RestAPI**](https://github.com/AndersonHsieh0330/WMMA_WhereMyMoneyAt_RestAPI) **|** [**Figma**](https://www.figma.com/file/NCkRbpFwAn2nk8ZR2nK5e7/WMMA_WhereMyMoneyAt)

* Allow user to read, add, delete and update money transaction data entries.
* Back end: Built RestAPI with Spring Boot connecting to a remote PostgreSQL database, following the Service, Repository and Data Access Layer architecture
* Front end: Built native Android app using Retrofit, Lifecycle components, SQLite and Room for local data cache, following the MVVM architecture with dependency injection.

**Wat2Eat : Food Places In Your Area |** [**Github**](https://github.com/AndersonHsieh0330/Wat2Eat) **|** [**GooglePlay**](https://play.google.com/store/apps/details?id=com.andyh.wat2eat) **|** [**Figma**](https://www.figma.com/file/rGpGtZTBn2PRsM8Y1U5fIi/Wat2Eat)

* A Native Android App developed to help people find food options around them in a touch, available on Google Play.
* Fetching and Displaying restaurant data and photos from Google Places API with Volley and Glide.

**VolleyTools: Volleyball Score Board |** [**Github**](https://github.com/AndersonHsieh0330/VolleyTools)

* Motivated and developed by my passion to the sport and to help recreational games run smoother.
* Implemented Firebase Google login and saves user’s volleyball match histories in Firebase Realtime Database.

**HelpMe (HackTheNorth 2021 Fall) : Charities That Fits Your Need |** [**Github**](https://github.com/AndersonHsieh0330/HelpMe-HacktheNorth-2021) **|** [**Devpost**](https://devpost.com/software/helpme-n5w3hg)

* React Native app that finds nearby charities tailored to user’s information. Charity data is fetch from [Charity Navigator API](https://www.charitynavigator.org/index.cfm?bay=content.view&cpid=1397)
* Strive to help those who lost their families due to COVID-19.
* Took responsibility in constructing the UI with JSX and implementing Firebase Google Login.

**RatesUp : Currency Converter with History Records|** [**Github**](https://github.com/AndersonHsieh0330/RatesUp)

* A Native Android App that does currency conversions while displaying the rates change for the last three months.
* Fetching data from [freecurrencyapi](https://freecurrencyapi.net/) with Retrofit and Kotlin Coroutine, implement dependency injection with Hilt.

Experience

**Assistant Engineer, KKStream Limited |** Taipei City, Taiwan Aug 2021 - Dec 2021

* Restored Android UI automation testing with Espresso, PageObject Models, Jenkins and time after work hours, optimized testing efficiency by over 30 percent.
* Shipped two new features while taking full charge of all associated testing, increased user access on the two related modules by 10 percent.

**Test Engineer Intern, Barco N.V** | New Taipei City, Taiwan Dec 2020 - Apr 2021

* Collaborated with DevOps engineer to bring network authentication testing environment (802.1X) into the System Validation team using Free RADIUS server on Linux, improved accuracy and efficiency of associated testings.
* Lead and trained interns for testing concepts with solid knowledge in computer networking, double training efficiency of new interns.

**Childcare Volunteer, Chang Gung Memorial Hospital** | Taoyuan, Taiwan July 2018 - Aug 2019

* Supported relatives of over 50 child patients Relieved stress of parents and children by accompanying and consoling them in times of grief, navigating them through their illnesses.

Awards

* **Engineering International Student Scholarship: CAD$10000** | University of Waterloo Sep 2020
* **2 time BC AAA Highschool Volleyball Provincial Bronze Medalist** | Volleyball Canada Dec 2018, Dec 2019

Education

**Candidate for Bachelor of Applied Science, Computer Engineering, University of Waterloo**  Sep 2020 – Apr 2025

* ECE 250 Data Structure and Algorithms, ECE 150 Fundamental of Programming GPA 3.38 / 4.0