# Anderson Hsieh

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## Skills

**Technical:** Native Android, Espresso, Spring Boot, MySQL, React, React Native, Firebase
**Programming languages:** Java, Kotlin, SQL, JavaScript, HTML, CSS, C++
**Other:** Git, Agile: Scrum, Jenkins, Jira, Confluence, Computer Networks, Figma, Public Speaking, Child Care

## Projects

**WMMA_WhereMyMoneyAt : Full Stack CRUD Application | [Github: AndroidApp]() | [Github: RestAPI]() | [Figma]()**
- Features include to read, add, delete, and update money transaction entries.
- Built RestAPI with Spring Boot connected to a remote PostgreSQL database, following the Service, Repository and Data Access Layer architecture
- Constructed native Android app using Retrofit, Lifecycle components, SQLite and Room for local data cache, and following the MVVM architecture.

**RatesUp : Currency Converter with History Rate Changes | [Github]() | [Figma]()**
- Inspired by my personal need to look up currency conversions as an international student who travels often.
- Fetch data from [freecurrencyapi]() with Retrofit and Kotlin Coroutine, and apply dependency injection with Hilt.

**Wat2Eat : Food Places In Your Area | [Github]() | [GooglePlay]() | [Figma]()**
- A Native Android App developed to help people find food options around them, available on Google Play.
- Fetching and Displaying restaurant data along with photos from Google Places API with Volley and Glide.

**VolleyTools : Volleyball Score Board | [Github]()**
- Motivated by my passion of volleyball and developed to help recreational events run smoother.
- Implemented Firebase Google login that saves user's match histories in Firebase Realtime Database.

**HelpMe (HackTheNorth 2021 Fall) : Charities That Fits Your Need | [Github]() | [Devpost]()**
- React Native app that finds nearby NGOs tailored toward user's information. NGOs info obtained from [Charity Navigator API.]()
- Responsible for implementing the UI with JSX and Firebase Google Login.

## Experience

**Mobile Application QA Engineer, KKStream Ltd. |** Taipei City, Taiwan                                      Aug 2021 - Dec 2021
- Restored Android UI automation testing with Espresso, PageObject Models and Jenkins, optimized testing efficiency by over 30 percent.
- Shipped two new features on Mobile Music app used by 3.5 million Japanese while taking full charge of all associated testing, increased user traffic of the two modules by 10 percent.

**Test Engineer Intern, Barco N.V** | New Taipei City, Taiwan                                      Dec 2020 - Apr 2021
- Collaborated with DevOps engineers to bring network authentication testing environment (802.1X) into the System Validation team using Free RADIUS server on Linux. Also include creating documentations and tutorial demonstrations, saved the team over a week of learning time.
- Lead and trained interns for testing concepts with strong 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, and navigating them through their illnesses.

## Awards

- **Engineering International Student Scholarship: CAD$10000** | University of Waterloo                                      Sep 2020
- **Two consecutive 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 3.85 / 4.0