

# Anderson Hsieh

[h2hsieh@uwaterloo.ca](mailto:h2hsieh@uwaterloo.ca) | (+1)2262014836 | [github.com](https://github.com) | [linkedin.com](https://www.linkedin.com) | [personal website](#)

## Skills

**Technical:** Native Android, Espresso, Spring Boot, MySQL, React, Next.js, Redux, Firebase, Docker, Apache Kafka  
**Programming languages:** Java, Kotlin, SQL, JavaScript, HTML, CSS, C, C++  
**Other:** Git, gRPC, Swagger/Open API Specification, Agile: Scrum, Jenkins, Figma, Child Care, Fish Keeping

## Work Experience

- Full Stack Mobile Software Developer @ FleetComplete** | Waterloo ON, Canada April 2022 – Aug 2022
- Supported searching, filtering, sorting, and pagination of multiple entities with JDBC Template, SQL (Postgres), Open API spec, and Protobuf messages while ensuring over 85% unit test coverage, feature accepted in phase 2 release.
  - Designed and implemented data mapping between inspection schedule and vehicle types across multiple microservices to meet business requirements, accepted as part of initial product release on August 30<sup>th</sup> 2022.
  - Identified and refactored code around KafkaProperties and error code mapping between backend services, reduced 70% + code redundancy, and helped future developers identify problems quicker.
- Mobile Application QA Engineer @ KKStream Ltd.** | Taipei City, Taiwan Aug 2021 - Dec 2021
- Optimized testing efficiency by over 30% by restoring Android UI automation testing with Espresso, PageObject Model.
  - Shipped two new features on Mobile Music app used by 3.5 million Japanese while taking full charge of all associated testing, increased usage of the two modules by 10%.
- Test Engineer Intern @ Barco N.V** | New Taipei City, Taiwan Dec 2020 - Apr 2021
- Collaborated with DevOps engineers to introduce network authentication testing environment (802.1X) into system validation testing, using Free RADIUS server through documentations and tutorial demonstrations, saved the team over a week of learning time.
  - Led and trained interns for testing concepts with strong knowledge in computer networking, doubled training efficiency.

## Projects

- Task/Order Management System for Bristle Co. Ltd (On Going)** | [Github](#) | [Figma: Web](#) | [Figma: Android](#)
- Task management system used by 10+ employees for wheel brush manufacturing company, reduce 100% paper waste printed-production-tickets based manufacturing process.
  - Implemented microservices backend with 4 services implemented with Spring boot, flyway, and gRPC, deployed through Docker compose to local Synology NAS.
  - Next.js web app as ticket issuing platform and Android tablet with ticket viewing app distributed around the factory for employees to record production process.
- WMMA\_WhereMyMoneyAt : Full Stack Transaction Management App** | [Github: Android](#) | [Github: RestAPI](#) | [Figma](#)
- Built RestAPI with Spring Boot, PostgreSQL, following the Repository pattern with Hibernate.
  - Implemented native Android app using Kotlin, Retrofit, Lifecycle components, SQLite and Room for local data cache, following the MVVM architecture.

[More Projects...](#)

## Volunteer Experience

- Executive, Promotion Team / Tournament Team Lead @ UWSERVE** | Waterloo, ON May 2022 - Present
- Manage Social Media accounts, design posters, organize volleyball tournaments, over 200+ club members in Fall 2022 term.
- Treasurer and Communications Director @ UW Taiwan Student Society** | Waterloo, ON Sep 2022 - Present
- Manage financial transactions, initiate communications with other organizations and coordinate in-person events.
- Software Developer @ UW Entrepreneurship Society** | Waterloo, ON May 2022 - Aug 2022
- Helped coordinate in-person events and maintained official club website made in Next.js.
- Childcare Volunteer @ Chang Gung Memorial Hospital** | Taoyuan, Taiwan July 2018 - Aug 2019
- Supported relatives of over 50 child patients, relieved the stress of parents and children by accompanying and consoling them in times of grief, navigating them through their illnesses. Received positive feedback from Director of Volunteers.

## Education

- Candidate for Bachelor of Applied Science, Computer Engineering, University of Waterloo** Sep 2020 – Apr 2025
- ECE 252 Systems Program & Concurrency, ECE 224 Embedded Microprocessor System GPA 3.8 / 4.0