Howard Lung Hao Tung

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EDUCATION

MS. Software Development   Aug 2022 – May 2024
University of Utah | School of Computing   GPA: 4.0 / 4.0

BS. Information Communications   Sep 2018 – June 2021
Chinese Culture University | College of Journalism and Mass Communications   GPA: 3.75 / 4.0

WORK EXPERIENCE

Web Developer & User Experience Assistant | *J. Willard Marriott Library*   June 2023 – Present

- Proficiently resolve website-related issues reported by library employees using **Jira** project management software. This includes adding elements and editing pages, utilizing **WordPress** and **Omni CMS**.
- Implement custom **PHP** functions to enhance website functionality, resulting in improved user interactions and efficiency.
- Conducted thorough quality checks on all library website pages, ensuring they met design standards and were free from style issues, typos, and other errors.

PROJECT

UBetterSurplus – **Capstone Project** | *Web Application*   October 2023 – Present

- Developed a dynamic and efficient Web Application using **React**, **JavaScript**, **C#**, **Entity Framework Core** and **ASP.NET Core**, integrating a responsive and visually appealing user interface through **Figma** and **Fluent UI Design** principles.
- Established secure user authentication features with **JWT** (JSON Web Tokens) and **BCrypt**.
- Devised a data extraction mechanism to retrieve real-time inventory information from the University of Utah surplus store's frequently updated PDF file, eliminating the need for manual searches. Extracted data is stored in **MySQL**.
- Utilized **DBML** and **Entity Relationship** (ER) diagrams to design and optimize the database structure, ensuring data integrity and efficient retrieval.

University of Utah Surplus Store – **Side Project** | *Data Integration Application*   September 2023 – October 2023

- Extracted data from the University of Utah Surplus store website in PDF format using **Python**, transforming it into **JSON** for testing, and then integrated it into **MySQL** for my capstone project.
- Processed approximately **600** items, sanitizing data. Capability is subject to change based on the number of items available on the website at a given time.

MovieAddict – **Side Project** | *Mobile Cross-Platform Application*   June 2021 – December 2021

- Developed an innovative user interface movie application showcasing movie theater locations and movie playtimes and storing bookmarked info in **Hive**, a local database within Flutter framework.
- Utilized **Figma** to construct prototype, wireframe, and create the workflow.
- Programmed the language with **Dart** using **JSON** as the output file of Movie-Web-Scraping and **Flutter** framework as the primary source.

Graduation Points (GP) – **Capstone Project** | *Mobile Cross-Platform Application*   October 2020 – May 2021

- Collaborated with 4 student researchers as the lead programmer and developed an application that helps students to find information regarding the graduation requirement (PCCU-Passport) efficiently.
- Utilized **Flutter** and **SQLite** as the local database; used **ChromeDriver** and **Beautiful Soup** in **Python** to capture .xlsx from the school website to convert to a clean .csv format and uploaded to **Firebase**.
- Designed the history function that allows users to record past activities and store photos, and the add-to-favorites function enables users to save preferred activities.

SKILLS & TECHNICAL TOOLS

Java | JavaScript | C# | Firebase | Flutter | React | MySQL | C++ | Python | Kotlin | Dart | SQLite | HTML | CSS | Git | JSON | Figma | Jupyter Notebook | Adobe Premier Pro | Adobe After Effects CC