Chien-Ying (Catherine) Yang

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EDUCATION

Master of Science in Computer Science, Boston University

Sep. 2022 – May 2024(Expected)

• Relevant Coursework: Data Structure and Programming, Algorithms, Object Oriented Programming, Object Oriented Analysis and Design, Web Programming, Human Computer Interaction and Design

Bachelor of Science in Engineering Science, National Taiwan University

Sep. 2017 – June 2021

TECHNICAL SKILLS

Programming Languages: Python, Java, C++ | Databases management: MongoDB, MySQL Web Development: JavaScript, HTML/CSS, C++ | iOS Development: Swift, SwiftUI, Xcode Developer Tools: Xcode, Git, Web Driver Agent, Android Debug Bridge, Google Chrome Extension

Frameworks: React, Node.js, GraphQL, Ant Design, Material-UI

PROFESSIONAL EXPERIENCE

Python Programming Teaching Assistant, National Taiwan University Sep. 2021 – Jan. 2022

- Taught a 2-hour course twice weekly with original tutorials and hands-on work to 800+ students, the largest university **Python** course in Taiwan
- Held individual office hours for 20+ students 3 hours per week

Software Developer Intern, ShopBack Co. Ltd.

Feb. 2021 - July 2021

- Cross functional collaboration with different functional teams to ensure the testing is rigorous and relayed to the appropriate engineering teams immediately
- Developed automated testing scripts using **Python** for 2 key projects, successfully improving team efficiency by 60% daily
- Utilized Web Driver Agent and Android Debug Bridge to perform automatic tests on ShopBack's iOS and Android application's search, log in and sign up functions

Projects

Collaborative Bookmark Group Management Website Development (Project Link)

- A web service allowing 50+ users to co-edit bookmarks groups in real-time
- Developed a front-end website with React and Ant Design
- Utilized GraphQL to connect with the back-end API built with Node. is and stored data in MongoDB
- Developed a popup Google Chrome Extension with React and utilized React cookie to connect the extension tool with the web service

Trip Together - Co-edit Trip Planning iOS Application Development (Project Link)

- Developed a co-editing trip planning mobile application allowing 50+ users to plan trips and share ideas with others
- Planned application development, converting prototypes into usable app presence with Swift
- Connected with **Google Map API** to access location-based data, embed Google Maps imagery into mobile apps and provided best trip route for users
- Integrated Map Kit in the app to display display real-world, real-time maps based on user's current location

Piglet Automated Weighing System Development Using AI

- Developed a visualize dynamic interface system in **Python** for weighing piglets and uploading data directly to the computer through a wireless network
- Utilized multi-threading to run tasks on a separate thread in order to boost the system performance by 50%

Restaurant Choice Recommendation System Development (Project Link)

- Coded in **Python** under the **Tkinter** framework to develop a front-end interface
- Connects with Google Place API to access nearby location data for restaurant recommendations

Functionally Reduced And-Inverter Graph (Project Link)

• Coded in C++, parsed input circuit from description files, performed Boolean logic simulations, identified functionally equivalent candidates in circuits through a Boolean satisfiability problem (SAT) solver, and simplified the circuit