WENNIE (FANG-YU) WU

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EDUCATION

Master of Science in Information Systems (MSIS)   May 2023
New York University   New York, NY

Bachelor of Science in Computer Science & Information Engineering   Jun 2018
Fu Jen Catholic University   Taipei, Taiwan

SKILLS

- **Languages:** Swift, Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, NoSQL, OOP
- **Frameworks:** SwiftUI, UIKit, React, React Native, Redux, Flask, Bootstrap, jQuery, Ajax
- **Tools:** Git, Unit Testing, CI/CD, Cloud Computing, Microservices, Docker, Kubernetes, Jenkins, Fastlane

WORK EXPERIENCE

Software Developer Intern   Feb 2023 - May 2023
Caroo   New York, NY
- Engineered a scalable generative AI message/image **RESTful** microservice using **Flask** in an Agile Scrum team
- Realized high-fidelity user interface prototype with **React** for seamless integration into Caroo's codebase
- Deployed API token optimization strategies such as paraphrasing and caching to reduce cost by 35%

iOS Engineer Intern   Sep 2022 - Dec 2022
Firework   San Mateo, CA
- Built iOS apps using **Swift**, **SwiftUI**, **UIKit**, and **Core Location** with multi-threaded, asynchronous code
- Re-architected apps to be more flexible, extensible, and testable; conducted unit testing using XCTest
- Managed project development cycle with Git; participated in paired programming with 3 senior engineers
- Contributed to daily standup meetings, sprint planning sessions, and team retrospectives
- Presented final project to 80+ engineers and gained positive feedback on using best development practices

Mobile Application Developer   Jul 2018 - Jul 2020
Li Chuang Mobile Tech Inc.   Taipei, Taiwan
- Built [2MRT](), an app featuring the Taipei Metro map, arrival times, route planner, and timetable
- Translated the design team's prototype into responsive features using **React Native** & **Redux**
- Set up reusable and scalable UI components, reducing development time by 25%
- Managed app requirements and timelines; worked cross-functionally to secure NT$500K in grant funding

SELECTED PROECTS

[WhatSub]() - Subleasing Platform
- Created a subleasing app using **Swift** and **SwiftUI** supported by a serverless Firebase backend
- Developed CRUD property management and real-time messaging features
- Implemented custom native UIs and optimized dependency management through Swift Package Manager
- Used **MVVM** pattern with a focus on clean architecture for enhanced scalability and maintainability
- Employed pagination and indexing to reduce database queries and optimize data retrieval processes

[NYU DevOps]() - Customer Management Service
- Built and deployed a **cloud-native**, RESTful customer microservice for eCommerce using **Flask** and **Javascript**
- Implemented test-driven and behavior-driven development; achieved 97% code coverage
- Socially coded in Agile team to configure a CI/CD pipeline that automatically runs on IBM cloud
- Used Docker, Kubernetes for containerization and Swagger for documenting API

Shin Kong Hospital - Hemodialysis Operation Assistance Application
- Built a mobile app with **React Native**, simplifying registered nurses' workflow by merging 3 data systems
- Designed RESTful API using **ASP.NET** to interact with patient data stored in the hospital's **SQL** server