

Chih-Hsuan(Maggie) Chang

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EDUCATION

M.S. in Electrical and Computer Engineering
University of Massachusetts, Amherst, Massachusetts

December 2022

B.S. in Mathematics
Fu Jen Catholic University , New Taipei City, Taiwan

June 2017

INDUSTRY EXPERIENCE

Software Engineer Intern, Maps and Navigation

June 2022 - September 2022

Amazon, Bellevue, United State

- Designed and developed new features with **Android**, **Kotlin**, and App Action to let transporters provide feedback to a mobile device with their voice while driving.
- Used Google Assistant plugin to test App Actions on a test device and performed unit test for event builder.
- Presented and demoed case studies and solutions for the organization.

Software Engineer, Web and Software development

August 2017 – August 2021

International Integrated Systems, Inc. (IISI), New Taipei City, Taiwan

[National Taiwan New Digital ID Card System and Website]

- Developed the application using **Java** and **Spring MVC** Architecture through Jenkins for deployment.
- Created Responsive Web Design web pages using JavaScript, HTML5, CSS/Bootstrap, AJAX/JQuery.
- Presented the system for the government officers.

[Household Registration System and Website]

- Built **RESTful API** servers and collaborated with the mobile device development team for developing Android and IOS mobile Application.
- Revamped up to 20 web pages and back-end system.
- Using Postman for Rest API Testing.
- Developed components for maintenance and unified reporting style.
- Involved in generating PDFs using IText and developed test cases using JUnit.
- Solved blockages in the underlying program by troubleshooting, including identifying and overriding problems.

[Database Transfer System]

- Developed a system to transfer official national data from Informix to **MS SQL Server** by synchronizing the data periodically in **Java**.
- Managed multiple databases by utilizing PowerShell.

PROJECT

Elevation-based Navigation

Fall 2021

- Developed a navigation web application that calculates routes based on user's preference of route elevation based on **ReactJS** and **python Flask**.
- Used Jest and tools that could mock json files to test front end "renders without crashing" and functionality.

MIPS Simulator

Spring 2021

- Designed and implemented a 5-stage pipeline machine in **C/C++**.
- Achieved real-time & step-by-step, two types of contents display mode of all the registers, latches and memory.

TECHNICAL SKILLS

- Programming Languages : **Java**, Kotlin, Python
- Web development : **JavaScript**, HTML5, CSS/Bootstrap, AJAX/JQuery, **ReactJS**, Flask, JSP
- Framework/Technologies : Spring boot, Android, Hibernate, **RESTful API**, JUnit
- Database : Oracle, MySQL, MS SQL Server, Informix, MongoDB
- Server : Tomcat, Oracle WebLogic Server, JBoss
- Tools: Git, Postman, Jenkins, Maven