

TING-YIN CHANG CHIEN

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Education

The University of Texas at Austin

Master of Science in Computer Science (GPA: 3.67/4.0)

Aug. 2021 – May. 2023 (Expected)

Austin, TX

National Taiwan University

Bachelor of Science in Computer Science and Information Engineering (CSIE) (GPA: 3.74/4.0)

Sep. 2009 – June 2013

Taipei, Taiwan

Skills

Practice	Web Development (React, Django), Database, Internet of Things, Machine Learning
Coding	Python, C/C++, React, TypeScript, Java, C#, SQL
Language	Mandarin(Native), English(Proficient), Japanese(Proficient)

Experience

Graduate Research Assistant

The University of Texas at Austin | Linguistics Department

Jan. 2023 – present

Austin, TX

- Research natural language processing techniques for extracting a story from stories mixture by graph convolutional network.

Software Engineer Intern

Microsoft | OneDrive and Sharepoint, Project Billion Backup/Restore Team

May 2022 – Aug. 2022

Redmond, WA

- Designed and developed the suspension of logical master database backup for **Microsoft Azure SQL**. Saved \$9000 per month for storage and transaction.
- Implemented the feature with SQL server in **C++**, backup service and watchdog in **C#**. Implemented E2E tests integrating with **T-SQL**, **Kusto**, **Azure Blob Storage** and **OneBox VM**.

Software Engineer

Change Healthcare | Shop Book and Pay (SBP), Digital Experience Platform

Sep. 2020 – July 2021

Taipei, Taiwan

- Developed the e-commerce platform solution on Java based CMS - **Adobe Experience Manager (AEM)** that allows patients to search medical services costs and give them out-of-pocket estimation with their insurances.
- Designed an automation program using **Python & Selenium** to build and verify over 50 tenant-specific SBP sites, reducing time by more than 66% from 3 days to 1 day for each site.
- Developed the front-end using **React** with responsive web design, improving 40% user experience on different devices.

Research Assistant

National Taiwan University | Medical Computer-Aided Diagnosis System Lab, Dept. of CSIE

Apr. 2018 – Aug. 2020

Taipei, Taiwan

- Conducted research on tumor-related images (breast tumor, lymph node, lung nodule images, etc.) detection and classification using machine learning/deep learning methods in **Python**.
- Reduced 87% of false positives (from 29.35 to 3.8) at 98% sensitivity (AUC = 0.961) and reduced 90% of execution time (from 11 sec. to 1 sec.) in tumor detection using the modified object detection system YOLOv3.

Software Engineer

Brogent Technologies Inc.

Jan. 2014 – Mar. 2016

Kaohsiung, Taiwan

- Developed the central control system of two 4-D, somatosensory, 100-seat rides in **C/C++** with ModBus, PLC and serial communication for two full-year projects: Yumble 4-D Theatre and Wildlands Adventure Zoo Emmen 4-D Theatre.
- Designed a general UI in **C#**, saving 50% of UI implementation time for other control systems.

Projects

GerryMap

Spring 2022

- Developed a website for state, district and politician search related to gerrymandering.
- Implemented the front-end search/filter/sort functions and unit tests in **React** with **TypeScript**. Used **Docker** for front-end and back-end development.

Lottery webpage

Dec. 2018

- Developed a webpage for drawing the lottery using **Django** from front-end(**JavaScript** and **HTML/CSS**) to back-end(**RestAPI** and **SQL** database).

Additional Experience

WWOOF (Volunteering) and Working Holiday in Japan / Australia / New Zealand

2016 – 2018

- Volunteered and worked in various industries with full exposure to foreign cultures.

Public Relations Manager, CSIE Student Association

2011 – 2012

- Held 3 alumni forums for student career planning, developed campaigns and sought sponsorship.