

Cheng-Han Wu

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EDUCATION

University of California-Irvine

Master of Computer Science, GPA: 3.60 / 4.00

Sep 2021 – Dec 2022

Irvine, California

Curriculum: Operating Systems, Parallel and Distributed Computing, Advanced Algorithm and Problem Solving, Databases and Data Management, Computer Security

Tunghai University

Bachelor of Engineering, Computer Science, GPA: 3.64 / 4.00

Sep 2015 – Jun 2019

Taichung, Taiwan

Activities:

- Teaching Assistant in Computational Thinking and Programming – Applications of Big Data
- Teaching Assistant in Programming Language – Python and Open Data

Online Learning Certification

Deep Learning Specialization - deeplearning.ai

Jun 2019

Deep Reinforcement Learning Nanodegree - Udacity

May 2019

Machine Learning Engineer Nanodegree - Udacity

Feb 2018

SKILLS

- **Programming:** Python, JavaScript/Typescript, Java, SQL, C++, HTML, CSS, Go
- **Toolkits/Frameworks:** ReactJS, NodeJS, Git, GCP, AWS, Linux, Docker, Flask, REST API, Scrum, Object Oriented Design, MongoDB, PostgreSQL, Jira, Keras.
- **Languages:** Mandarin (native), English (fluent), Japanese (advanced, JLPT N1)
- **Certification:** AWS Certified Solutions Architect - Associate, AWS Certified Cloud Practitioner

EXPERIENCE

MyCareLinq Inc.

Jun 2022 – May 2023

Software Engineering Intern

Berkely, California

- Utilized **NLP intent classification**, **GPT-3.5 model**, and **Google Actions API** to develop the proof of concept of an intelligent healthcare product.
- Enhanced the user experience and increased engagement on the platform by developing a real-time messaging feature for the web app inspired by WhatsApp, using **ReactJS**, **socket.io**, and **MongoDB**.
- Boosted the company's online presence by improving the website's SEO ranking by developing a new blog system.
- Designed and built a professional, responsive landing website using modern web development technologies such as **ReactJS**, **NodeJS**, and **Tailwind CSS**.

Memopresso Inc.

Oct 2020 – Mar 2021

Frontend Engineering Intern

Taipei, Taiwan

- Optimized censorship work time by 70% by developing a content-uploading web application with **ReactJS**, **ExpressJS**, **MySQL**, and the **Google Cloud Platform services**. The automatic features enable the team to focus on more high-priority tasks.
- Designed and developed a prototype Augmented Reality system using **WebAR** and applied object recognition algorithms with **Faiss** vector similarity search to improve image matching speed by 50%.
- Collaborated with the three marketing team members to build a product website that effectively showcased the company's offerings and boosted customer engagement. This project increased the company's recognition and brand awareness in the marketplace.

Cinnamon AI Inc.

Jul 2020 – Aug 2020

AI Bootcamp Participant

Taipei, Taiwan

- Acquired knowledge in **Natural Language Processing**, AI software product life-cycle, and **Scrum** agile development during the training.
- Coordinated with a team of 3 developers during the contest and applied Scrum management principles during the AI Product Bootcamp competition.

Fullway Communication Ltd.

Nov 2018 – Feb 2019

Freelance Software Engineer

Taoyuan, Taiwan

- Designed an intelligent aquarium lighting system with **AWS Lambda**, **DynamoDB**, and **AWS IoT** technologies
- Developed a real-time device monitoring system using **AWS IoT** with **MQTT Protocol** to receive status updates from the **ESP32** microcontroller.

SOFTWARE ENGINEERING PROJECTS

Survey Sky | Developer Team Leader | Full-stack

A Google form-like survey-making and exchanging platform helps the academy do surveys more efficiently.

- Led a diverse team of 3 developers on a side project to create a survey-making and exchanging platform akin to Google Forms, resulting in a more efficient surveying process for academic institutions.
- Managed project progression through JIRA, ensuring a smooth workflow and timely completion of tasks.
- Developed a robust backend API using ExpressJS and created an intuitive form creation page, incorporating a drag-and-drop feature to enhance user experience and increase overall user satisfaction.

Lottery Number Picker | Side Project Owner | Full-stack, GCP Cloud

A cloud-based lottery number picks website provides a set of numbers to users based on historical jackpot data.

- Built a Taiwan lottery number picker website using **ReactJS** and **NextJS**. This website provided an intuitive and engaging platform for users to select lottery numbers and improved the user experience.
- Designed an automatic web parser system using **GCP Cloud Scheduler** and **Cloud Function**, **Firebase Datastore**. This system automatically parsed the latest winner number from the lottery website weekly.

HONORS & AWARDS

1st Place, AI Product Bootcamp MVP Launch Competition | Cinnamon AI, Taiwan

Aug 2020

- Developed a smart investment website powered by **ReactJS**, **Flask**, and the **Black-Litterman** model in a team of three developers and won 1st place.

Honorable Mention, Artificial Intelligence Cup Award | Ministry of Education, Taiwan

Mar 2019

- Utilized the **BiLSTM** model with **GloVe** word embedding using the **Flair** framework to solve **Named Entity Recognition** tasks in biomedical papers and received 6th place out of 75 teams.

Honorable Mention, Graduation Thematic Competition | Tunghai University, Taiwan

Mar 2019

- Leveraged the **CNN model** and **Deep Learning** technology to develop a stylized image generator website.