

Cheng-Han Wu

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EDUCATION

University of California-Irvine

Master of Computer Science, GPA: 3.60 / 4.00

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

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

Deep Reinforcement Learning Nanodegree - Udacity

Machine Learning Engineer Nanodegree - Udacity

Sep 2021 – Dec 2022

Irvine, California

Sep 2015 – Jun 2019

Taichung, Taiwan

Jun 2019

May 2019

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 (advanced), Japanese (intermediate, JLPT N1)
- Certification:** AWS Certified Cloud Practitioner

EXPERIENCE

MyCareLinq Inc.

Software Engineering Intern

- 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 through the development of a new blog system.
- Designed and built a professional, responsive landing website using modern web development technologies such as **ReactJS**, **NodeJS**, **Tailwind CSS**.

Memopresso Inc.

Frontend Engineering Intern

- 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 enabling 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 3 members of marketing team to build a product website that effectively showcased the company's offerings and boosted engagement among customers. This project contributed to increasing the company's recognition and brand awareness in the marketplace

Cinnamon AI Inc.

AI Bootcamp Participant

- Learned **Natural Language Processing**, AI software product life-cycle, and **Scrum** agile development knowledge 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.

Freelance Software Engineer

- Designing an intelligent aquarium lighting system that leveraged **AWS Lambda**, **DynamoDB**, and **AWS IoT** backend technologies. This solution was interfaced with **iOS Swift** and **Android Java** applications, enabling users to control the lighting system remotely and providing real-time insights into the aquarium's environment.
- Developing a real-time device monitoring system using **AWS IoT** with **MQTT Protocol**. This solution enabled the team to receive status updates from the **ESP32** microcontroller, allowing for more efficient and effective monitoring of the device's performance.

SOFTWARE ENGINEERING PROJECTS

Instagram Giveaway | Team Leader | DevOps, AWS Cloud

An Instagram giveaway winner selection tool to help the Influencers save more than 80% of the time manually picking winners.

- Deployed application to **AWS EC2** and utilized **Docker Container** to increase the speed of the lifecycle from development to deployment.

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

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

- Building 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.
- Designing 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

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

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

- 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 a total of 75 teams.

Honorable Mention, Graduation Thematic Competition | Tunghai University, Taiwan

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

Academic Achievement Award | Tunghai University, Taiwan

- Achieved a top 2 average GPA in the Computer Science major in 2018.

Aug 2020

Mar 2019

Mar 2019

Jun 2018