

Ching-Ting Tsai

Email: tct20422@gmail.com | Phone: (669) 255-8564 | <https://www.linkedin.com/in/chingtingsai/>

EDUCATION

University of California, Irvine

September 2019 - June 2023

- B.S. in Computer Science
- GPA: 3.93/4.0
- Dean's Honor List (7 quarters)
- Relevant Coursework: Machine Learning and Data Mining, Information Retrieval, Introduction to Artificial Intelligence, Principle in System Design, Data Structure Implication and Analysis, Intermediate Programming, Introduction to Software Engineering, Computer Photo & Vision

SKILLS

Programming Languages: C/C++, Python, Java, HTML, CSS, JavaScript, SQL, MIPS, git

Software: Linux, Visual Studio, Eclipse, MySQL, GitHub, MARS, VMware Workstation

PROJECTS

Search Engines

January 2022 - Present

- Led a group of 3 in building our web crawler and information retrieval system using **python**.
- Crawled and retrieved 15000+ pages of valid URLs from the Computer Science department websites.
- Discussed and optimized the algorithm for trap detection and search effectiveness and efficiency.

AI Checkers

October 2021 - December 2021

- Collaborated with the other teammate in implementing MCTS algorithms for selecting the best move.
- Decreased the running time to under 8 minutes by balancing the number of iterations and the time cost.
- Improved our win rate by 35% against the smart AI and ranked as top 5 in the final class competition.

Online Chat System

August 2021 - September 2021

- Designed the wireframe for login and chatting interface and built them using **Vue**.
- Applied socket for connecting the client and the server allowing users to send texts to added friends.
- Saved and retrieved users' information, friends list, and history messages using **MySQL** database.

ACTIVITIES

Zotbins

January 2020 – June 2020

Undergraduate Student Researcher

- Resized and labeled thousands of waste images to train bins located on campus for waste recognition.
- Added the alert sound and visual effects on the screen of the bins to promote zero waste to the users.

EXPERIENCE

Cheng Guang Learning Center

September 2020 – June 2021

Math Tutor

Taichung, Taiwan

- Assisted 3 middle school students in clarifying math concepts on Algebra and Geometry.
- Guided students to solve problems by questioning and expanding their thoughts.
- Reviewed homework problems and created handouts on formulas for students before exams.