Ching-Chieh Wang

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Available: May 2025 – Jan 2026 | GitHub: https://github.com/ching-chieh-wang

EDUCATION

Northeastern University   **Boston, US**
Master of Science in Computer Science   *2024.1-present*

National Cheng Kung University   **Tainan, Taiwan**
Master of Science in Civil Engineering   *2020.09 - 2022.07*

National Central University   **Taoyuan, Taiwan**
Bachelor of Science in Civil Engineering   *2016.09-2020.7*

WORK EXPERIENCE

University of Illinois Urbana-Champaign SALT Lab   **US**
Software engineer   *2024.02-present*

- Contributes as a Backend Engineer to an LLM-Based Multi-Model Web Application focused on story generation, powered by Node.js. Collaborates with frontend developers to gather user input and integrate with LLM model APIs for story creation, ensuring efficient story storage and maintenance using MongoDB.

NATIONAL CHENG KUNG UNIVERSITY   **Tainan, Taiwan**
Researcher   *2020.09-2022.06*

- Master's thesis "RC structure surface cracks scene visualization using ArUco marker-aided reconstruction and RAUnet". Used Deep Learning, Computer Vision, Point Clouds tools to
automatically reconstruct concrete crack point clouds scene in real time.
- Developed concrete surface crack detection app using TensorFlow Deep Learning library. Automatically label crack pixels in image with over 90% of accuracy.
- Developed ArUco marker detection app using C++ OpenCV Computer Vision library. Automatically identify ArUco markers and label their location in 4K image less than 1 second.
- Developed ArUco marker Pose Estimation app using C++ OpenCV Computer Vision library.

NATIONAL CHENG KUNG UNIVERSITY   **Tainan, Taiwan**
Structural Analysis Teaching Assistant Leader   *2017.11-2023.11*

- Served as a TA leader for 3 semesters of structural analysis course. Designed and graded assignments and exams.
- Developed an automated grading tool using Python, which matches student responses with correct answers stored in Excel

PROJECT

Self-taught App Developer   *2022.07-2023.12*

- Developed a word card app; utilized PyQT to provide an interface that allows users to add, search, delete, skim, edit, and group English vocabulary while memorizing vocabularies.
- Developed a desktop wallpaper update app; utilized PyQT to provide an interface for users to adjust the time interval for when the wallpapers change. The app automatically collects different pictures from the internet and changes the wallpaper according to this interval.
- Developed a minesweeper game utilized PyQT as interface.

SKILLS

- **Languages:** C/C++, Python, Java, HTML/CSS
- **Technology:** React, Node.js, Express, MongoDB, MySQL, TensorFlow, OpenCV, PyQT