Wei-Lun Wu

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Education

University of Illinois, Urbana Champaign (UIUC)   *Champaign, IL*
PROFESSIONAL MASTER OF COMPUTER SCIENCE (MCS)   *Exp. Aug. 2024 - Dec. 2025*
- Courses: Distributed Systems, Applied Parallel Programming

National Taiwan University (NTU)   *Taipei, Taiwan*
B.S. IN ELECTRICAL ENGINEERING (MAJOR), COMPUTER SCIENCE (MINOR)   *Sep. 2019 - Jun. 2023*
- Overall GPA: **3.95/4.0**, Last 60 GPA: 3.97/4.0
- Awards: Dean's List (Top **5%** in academic performance)

Skills

Programming C, C++, C#, Python, Golang, Java, Javascript, Shell, PHP, Assembly, SQL
Frameworks Pytorch, React.js, Flask, Unity, CMake, Apache, Nginx, MongoDB
DevOps Linux, Git, Vim, Docker, Kubernetes, AWS, GCP

Work Experience

Amazon Ring   *Taipei, Taiwan*
SOFTWARE DEVELOPMENT ENGINEER INTERN   *Jun. 2022 - Sep. 2022*
- Developed features for the product used by over **10 million** users with C/C++/Assembly.
- Designed and integrated LED patterns on the doorbell with simplified transitions, reduced related code by **50%**.
- Managed power status and information on the doorbell, then published changes to related embedded peripherals.
- Collaborated with cross-functional teams to streamline embedded systems and IoT protocols.

NTU Computer and Information Networking Center   *Taipei, Taiwan*
SOFTWARE DEVELOPMENT INTERN   *Jun. 2020 - Oct. 2020*
- Supported preparations for Taiwan Academic Network Conference (TANet 2020).
- Led the development of a computer security game showcasing DDoS and RCE concepts using C#.
- Presented the game at the conference with 100+ daily views.

Selected Projects

3D Reconstruction from Road Marker Feature Points   *Github*
PYTHON   *Jun. 2023*
- Developed a system to reconstruct 3D point clouds from videos using Pinhole and SFM models.
- Advanced to the final round of the competition, finishing in 6th place.

QA Data Collector   *Paper Link*
PYTHON, JAVASCRIPT, REACT.JS   *May. 2023*
- Created and managed a full-stack website that collected 40000+ human QA acoustic data.
- Integrated text generation and comparison features for clarity and validation of spoken data.
- Collected SLUE-QA-5 dataset and published the results in **ACL 2023 Conference**.

Sign Language Recognition   *Github*
C++, PYTHON, VERILOG   *Jan. 2023*
- Designed a sign language recognition glove using flexpoint bend and level sensors.
- Developed a deep learning model for real-time recognition with 80% accuracy

Chatroom   *Github*
GOLANG, JAVASCRIPT, REACT.JS   *Jan. 2022*
- Built a chatroom with server-client architecture supporting messaging, file uploads (up to GBs), and a clean UI.
- Designed complete protocols for user registration, chatroom creation, and session maintenance.