

# HUNG-YI (TONY) WU

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## EDUCATION

### University of Illinois Urbana-Champaign

Champaign, IL

Master of Computer Science | GPA: 4.0/4.0

Expected May 2025

*Selected Coursework:* Distributed System, Cloud Computing Application, Data Mining, User Interface Design (Android App Design), Machine Learning and Data System, Software Engineering

### National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Bachelor of Science in Computer Science | GPA: 4.01/4.3

June 2022

*Selected Coursework:* Machine Learning, Natural Language Processing, Data Structures, Algorithms, Database Systems, Operating Systems, System Administration

## EXPERIENCE

### ASUS Intelligent Cloud Services

Taipei, Taiwan

Software Engineer

Aug 2022 – Apr 2023

Python / TypeScript / JavaScript / NodeJS / FastAPI / Vue / Azure / Selenium IDE / Backend / Frontend / Full Stack

- Achieved an 80% reduction in end-to-end automation test runtime for a hospital information system by introducing step-level parallelism and automatic failed test rerun mechanism to the test engine
- Increased the product stability by 20% on end-to-end tests by automating detailed reproduction steps for over 80 defects and initiating corrective action for 200+ custom-related issues

### InQuartik

Taipei, Taiwan

Software Engineer Intern

Jan 2022 – Jul 2022

Java (Spring) / JavaScript / REST API / PostgreSQL / Vue / AWS / Selenium / Cucumber

- Designed and built a customized patent analysis web service for clients' unpublished claims, which boosted revenue by 5%, by using Java Spring, PostgreSQL, and AWS S3
- Crafted features that enable users to conveniently browse multiple patents side-by-side, which increased the user experience and drove a 4% growth in revenue, by using Vue.js and JavaScript

### NYCU Artificial Intelligence & Multimedia Lab

Hsinchu, Taiwan

Undergraduate Research Assistant, Advisor: Wen-Huang Cheng

Sep 2021 – Jun 2022

Python / Artificial Intelligence / Machine Learning / Computer Vision

- Applied feature maps obtained from Human Pose Estimation to the Human Object Interaction prediction task
- Increased accuracy of Referring Expression Comprehension on RefCOCO by 6% as compared to SOTA methods

### Synopsys

Hsinchu, Taiwan

Software Engineer Intern

Jul 2021 – Aug 2021

C++ / CORBASIC / Python / EDA

- Translated the CORBASIC language (specific to Proteus) to C++, which achieved a 20% reduction in total turnaround time for Critical Dimension Variation Check (CDV Check)

## SKILLS

**Programming Languages:** Python, Java, C++, SQL, JavaScript, TypeScript

**Frameworks/Libraries:** Node.js, FastAPI, Spring, React, Vue, Keras, TensorFlow, NumPy, Pandas

**Tools/Technologies:** Git, MySQL, PostgreSQL, MongoDB, Redis, AWS, Azure, Jira, Asana, Jenkins, Scrum, CI/CD, Agile

## PUBLICATIONS

[1] J. Wang, H.-Y. Wu, J.-C. Chen, H.-H. Shuai, and W.-H. Cheng. Residual Graph Attention Network and Expression-Respect Data Augmentation Aided Visual Grounding. IEEE International Conference on Image Processing (ICIP). 2022

## PROJECTS

**Fake News Detection** (Python / Machine Learning / Natural Language Processing)

May 2021 – Jun 2021

- Achieved 97% to 99% accuracy on fake news detection with LSTM-based and BERT-based model

**Camera-Based Table Tennis Stroke Analysis** (Python / Machine Learning / Computer Vision)

Sep 2020 – Jun 2021

- Led a team of 3 to address staff shortage for a university's team by building an automatic video analysis system