

# HUNG-YI WU

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## EDUCATION

### University of Illinois Urbana-Champaign

Master of Computer Science

Champaign, IL

Expected Dec 2024

### National Yang Ming Chiao Tung University

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

Hsinchu, Taiwan

June 2022

## 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

## EXPERIENCE

### ASUS Intelligent Cloud Services

Software Engineer, Medical AI

Taipei, Taiwan

Aug 2022 – Apr 2023

Python / TypeScript / JavaScript / NodeJS / FastAPI / Vue / Azure / Selenium IDE

- Developed a bulletin board web system integrated with Azure resources, using Python FastAPI for the backend and Vue.js for the frontend
- Reduced end-to-end automation test runtime for a hospital information system by 80%. Introduced step-level parallelism and automatic failed test rerun mechanism to the test engine
- Achieved 20% increase in product stability for end-to-end tests by automating detailed reproduction steps for over 80 defects and initiating corrective action for 200+ custom-related issues
- Decoupled API tests from end-to-end tests and integrated results with Allure report framework to enhance test scalability and readability

### InQuartik

Software Engineer Intern

Taipei, Taiwan

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- Designed and built a customized patent analysis web service for clients' unpublished claims, which boosted revenue by 5%, by using Java Spring, PostgreSQL, and AWS S3
- Developed 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
- Developed over 350 BDD test cases using Java Cucumber to ensure seamless integration among data, backend, and frontend components

### Synopsys

Software Engineer Intern

Hsinchu, Taiwan

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)
- Identified an internal precision issue between two types of CDV Check through comprehensive regression tests

## PROJECTS

**Triplanner** (TypeScript / React / NextJS / Tailwind CSS)

Jul 2023 – Present

- Enable users to plan, share, and customize travel itineraries, providing a personalized travel planning experience

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

Sep 2020 – Jun 2021

- Led a team of 3 to address staff shortage issues for the university's table tennis team by building an automatic video classification service for players' strokes and an object tracker for balls and tables

**Stock Price Detection** (Python / Machine Learning / Yahoo Finance API)

Apr 2021 – May 2021

- Built a machine learning model to predict future stock prices based on data fetched from Yahoo Finance API

## 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," 2022 IEEE International Conference on Image Processing (ICIP), Bordeaux, France, 2022, pp. 326-330