HUNG-YI WU

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EDUCATION

University of Illinois Urbana-Champaign — Champaign, IL
Master of Computer Science — Expected Dec 2024

National Yang Ming Chiao Tung University — Hsinchu, Taiwan
Bachelor of Science in Computer Science | GPA: 4.01/4.3 — June 2022

- *Selected Coursework:* Data Structures, Algorithms, Database, Machine Learning, Natural Language Processing

EXPERIENCE

ASUS Intelligent Cloud Services (AICS) — Taipei, Taiwan
Software Engineer, Medical AI — Aug 2022 – Apr 2023
Python / TypeScript / Vue / NodeJS / FastAPI / Azure / Selenium IDE

- Reduced end-to-end automation test runtime for a hospital information system by 80% by introducing step-level parallelism and automatic failed test rerun mechanism to the test engine
- Achieved a 20% increase in product stability for E2E tests by automating detailed reproduction steps for over 80 defects and initiating corrective action for 200+ custom-related issues
- Developed and deployed a bulletin board system integrated with Azure resources, using Vue.js for the frontend and Python FastAPI for the backend
- Worked on decoupling API tests from E2E tests and integrating results with Allure report framework to enhance test scalability and readability

InQuartik (A patent intelligence company) — Taipei, Taiwan
Software Engineer Intern — Jan 2022 – Jul 2022
Java (Spring) / PostgreSQL / JavaScript / REST API / Vue / AWS / Selenium / Cucumber

- Designed and built a customized patent analysis web service for clients' unpublished claims with Java Spring, Vue.js, AWS S3, and PostgreSQL
- Enhanced user experience and drove a 4% revenue increase by developing features that enable users to conveniently browse multiple patents side-by-side 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 — Hsinchu, Taiwan
Software Engineer Intern — Jul 2021 – Aug 2021

- Achieved a 20% reduction in total turnaround time for Critical Dimension Variation Check (CDV Check) in Proteus Lithography Rule Check by translating the CORBASIC language (specific to Proteus) to C++
- Identified an internal precision issue between two types of CDV Check through comprehensive regression tests

SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, Java, C++
Framework/Library: React, Vue, Node.js, FastAPI, Spring, NumPy, Pandas, Keras, TensorFlow
Others: Git, MySQL, PostgreSQL, MongoDB, Redis, AWS, Azure, Jira, Asana, Jenkins, Scrum, CI/CD, Cloud, Figma

SELECTED PROJECTS

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

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

Personal Website (TypeScript / React / NextUI)

Stock Price Detection (Python / Machine Learning / API)

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

Emotion Classification on Empathetic Dialogues (Python / Machine Learning / Natural Language Processing)