

HUNG-YI WU

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EXPERIENCE

ASUS Intelligent Cloud Services (AICS)

Software Engineer, Medical AI

Taipei, Taiwan

Aug 2022 – Apr 2023

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

- Developed and deployed a bulletin board web system integrated with Azure resources, using Vue.js for the frontend and Python FastAPI for the backend
- 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
- 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)

Software Engineer Intern

Taipei, Taiwan

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- Designed and built a customized patent analysis web service for clients' unpublished claims with Java Spring, Vue.js, AWS S3, and PostgreSQL
- Drove a 4% revenue and increase user experience 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

Software Engineer Intern

Hsinchu, Taiwan

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

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

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

SKILLS

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

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

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

SELECTED PROJECTS

Triplanner (TypeScript / React / NextJS / Tailwind CSS)

- Aims to deliver a trip planner that enables users to plan, share, and customize travel itineraries by leveraging shared travel plans from others, providing a seamless and personalized travel planning experience

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 an automatic video classification service for players' strokes and an object tracker for balls and tables

Personal Website (TypeScript / React / NextUI)

Stock Price Detection (Python / Machine Learning / API)