

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, JavaScript, TypeScript, Java, C++, SQL

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

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 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%. 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) / 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- Designed and built a customized patent analysis web service for clients' unpublished claims with Java Spring, Vue.js, AWS S3, and PostgreSQL
- 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

- 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

- Aims to enable users to plan, share, and customize travel itineraries by leveraging shared travel plans from others, 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

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