

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

EXPERIENCE

ASUS Intelligent Cloud Services

Software Engineer

Taipei, Taiwan

Aug 2022 – Apr 2023

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

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

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- Designed and built a customized patent analysis web service for clients' unpublished claims, which boosted revenue by 5%, by using Java Spring, PostgreSQL, and AWS S3
- 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
- Created 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

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

PROJECTS

Triplanner (TypeScript / React / NextJS / Tailwind CSS)

Jul 2023 – Present

- Enables users to plan, share, and personalize travel itineraries effortlessly, delivering a unique and social-media-inspired 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 Long Short-Term Memory Network model to predict future stock prices based on historical data fetched via Yahoo Finance API