

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 (AICS)

Software Engineer

Taipei, Taiwan

Aug 2022 – Apr 2023

Python / TypeScript (Vue) / NodeJS / FastAPI / Selenium IDE / Azure

- Reduced 80% runtime for end-to-end automation tests by introducing step-level parallelism and automatic failed test rerun mechanism to the test engine
- Analyzed and initiated corrective action for 200+ custom-related issues by conducting 1000+ automation tests
- Automated detailed reproduction steps for 80+ defects and reported 200+ bugs and discrepancies to developers
- Handled daily service deployments for the initialization and stage environments with Azure Pipelines
- Built an end-to-end Bulletin Board System with Vue.js as frontend and FastAPI as backend
- Survey and delivered PoC for decoupling API tests from end-to-end tests to enhance the test scalability

InQuartik (A patent intelligence company)

Software Engineer Intern

Taipei, Taiwan

Jan 2022 – Jul 2022

Java (Spring) / PostgreSQL / JavaScript (Vue) / Selenium / Cucumber / AWS

- Designed and developed the backend (including 50+ REST APIs) of a new feature that provides customized analysis for clients' unpublished claims with Java Spring, AWS S3 and PostgreSQL
- Developed a frontend feature that allow users to browse multiple patents side-by-side using Vue.js, which boosted the revenue by 4%
- Created 350+ BDD test cases with Java Cucumber to ensure the integration among data, backend, and frontend

Synopsys

Software Engineer Intern

Hsinchu, Taiwan

Jul 2021 – Aug 2021

- Decreased 20% turnaround time for Critical Dimension Variation Check (CDV Check) in Proteus Lithography Rule Check by translating CORBASIC (language specific to Proteus) to C++
- Completed regression tests and identified an internal precision issue between two kinds of CDV Check

SKILLS

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

Framework: React, Vue, Node.js, FastAPI, Spring

Others: Git, MySQL, PostgreSQL, MongoDB, Redis, AWS, Azure, Jenkins, Jira, Asana, Scrum

PROJECTS

Camera-Based Table Tennis Stroke Analysis

Sep 2020 – Jun 2021

- Led a team of three to solve a staff shortage problem for the university's table tennis team by automating video analysis and calculations
- Built an SVM model to classify table tennis players' strokes (forehand, backhand, etc.) with skeleton detection and achieved 92% accuracy on test videos
- Designed a U-Net model with EfficientNet as encoder to trace balls and tables with a 90% average IoU score on test images using Semantic Segmentation