

HUNG-YI (TONY) WU

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EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Master of Computer Science | GPA: 4.0/4.0

Expected May 2025

Selected Coursework: Distributed System, Cloud Computing Application, Data Mining, User Interface Design (Android App Design), Machine Learning and Data System, Software Engineering

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Bachelor of Science in Computer Science | GPA: 4.01/4.3

June 2022

Selected Coursework: Machine Learning, Natural Language Processing, Data Structures, Algorithms, Database Systems, Operating Systems, System Administration

EXPERIENCE

ASUS Intelligent Cloud Services

Taipei, Taiwan

Software Engineer

Aug 2022 – Apr 2023

Python / TypeScript / JavaScript / NodeJS / FastAPI / Vue / Azure / Selenium IDE / Backend / Frontend / Full Stack

- 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

Taipei, Taiwan

Software Engineer Intern

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- Designed and built a customized patent analysis web service for clients' unpublished claims, which boosted revenue by 5%, by using Java Spring, PostgreSQL, and AWS S3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

Synopsys

Hsinchu, Taiwan

Software Engineer Intern

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)

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, Agile

PROJECTS

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

May 2022 – Jun 2022

- Performed data grouping, role feature, and FastText on data and achieved 63% accuracy on Emotion Classification on Empathetic Dialogues with data grouping and RoBERTa

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

May 2021 – Jun 2021

- Achieved 97% to 99% accuracy on fake news detection using LSTM, Bidirectional LSTM, CNN-BiLSTM, and BERT-based model

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