

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, Medical AI

Taipei, Taiwan

Aug 2022 – Apr 2023

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

- 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

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- Designed and built a customized patent analysis web service for clients' unpublished claims, which drove a 4% growth in revenue, by using Java Spring, Vue.js, AWS S3, and PostgreSQL

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

PUBLICATIONS

[1] J. Wang, H. -Y. Wu, J. -C. Chen, H. -H. Shuai and W. -H. Cheng, "Residual Graph Attention Network and Expression-Respect Data Augmentation Aided Visual Grounding," 2022 IEEE International Conference on Image Processing (ICIP), Bordeaux, France, 2022, pp. 326-330

PROJECTS

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

May 2022 – Jun 2022

- Performed data grouping, role feature, and FastText on input data to compare the efficacy of different methods
- 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

- Utilized LSTM, Bidirectional LSTM, CNN-BiLSTM, and BERT-based model to perform fake news detection
- Achieved 97% to 99% accuracy on University of Victoria ISOT Fake News Dataset

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

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

SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C++, SQL
- **Libraries/Frameworks:** NumPy, Pandas, Keras, TensorFlow, React, Vue, Node.js, FastAPI, Spring
- **Tools/Technologies:** Git, MySQL, PostgreSQL, MongoDB, Redis, AWS, Azure, Jira, Asana, Jenkins, Scrum, CI/CD