

Jhao-Ting Chen

✉ jhaoting@cmu.edu | 🏠 jtchen0528.github.io | 💻 jtchen0528 | 📱 jtchen0528 | ☎ (+886) 905-568-318

Education

Carnegie Mellon University

Pittsburgh, US

Master of Science in Electrical and Computer Engineering

Aug. 2022 - Dec. 2023

- Concentration: Software Engineering, AI/ML Systems.

National Tsing Hua University

Hsinchu, Taiwan

Bachelor of Science in Electrical Engineering, GPA: 3.93/4.30

Sep. 2017 - Jun. 2021

- Key Courseworks: Operating System, Algorithms, Machine Learning, Web-app Development, Software Engineering.

Work Experience

Microsoft

Taipei, Taiwan

Software Engineering, R&D Intern

Jul. 2020 - Jul. 2021

- Designed and Developed high-performance scripts and parallel execution workflows for the **Azure Virtual Machine Series** node-level/rack-level reliability estimation. Built with **PowerShell, Batch, Python scripts**.
- Set-up interactive dashboards holding **500M+ Azure server node records** for instant server health inspection.
- Audited **1M+ server logs** across **200+ Azure data centers** through Microsoft SQL server and Kusto.
- Built **100% automated** project-tracking services for **20+ team members** with Python, SharePoint, Power Automate.
- Parsed BMC logs and computed precise metrics for Azure server components life cycle and time to failure evaluation.

Logitech

Hsinchu, Taiwan

Picture Analysis and System Development Intern

Mar. 2020 - Jun. 2020

- Analyzed **1000+ photos** of product materials with **machine learning** and systemized the analysis workflows.
- Developed a full-stack website with Python **Flask-app, Nginx and Google Cloud Platform**, deployed the system for **50+ CMF team members** at Logitech Hsinchu and Shuzo site.

Research Experience

Academia Sinica, AIU Lab

Taipei, Taiwan

Research Assistant

May 2021 - Feb. 2022

- Conducted rigorous research in Forgery Detection, Object Detection and Vision-Transformer models.
- Gained extensive experience in dataset processing. Processed **50M+ images, 5K+ videos/audio**, in **20+ datasets**.
- Developed and deployed a **multi-modal, video-audio deepfake detector** for National Security Bureau of Taiwan.

Skills

Programming Python, C/C++, JavaScript, Windows PowerShell, Shell/Batch Scripts, SQL, Verilog

Tools/Frameworks Node.js, React.js, Nginx, Amazon Web Services, Google Cloud Platform, Git, PyTorch, Tensorflow

Deep Learning Dataset Processing, Deepfake Detection, Object Detection, Face Recognition, Model Deployment

Publications

Jhao-Ting Chen, H.A. Hsia, C.H. Lin, B.H. Kung, D.S. Tan, J.C. Chen, K.L. Hua. *CLIPCAM: A Simple Baseline For Zero-shot Text-guided Object and Action Localization*. **IEEE ICASSP 2022**. 📄 aiiu-lab/CLIPCAM

Projects

📱 jtchen0528/PCL-I2G

Aug. 2021

- Re-implemented the paper: *Learning Self-Consistency for Deepfake Detection* (ICCV 2021), proposed by AWS AI.
- Keywords: Computer Vision, Deepfake Detection, Self-supervision, Deep Learning, PyTorch.

📱 jtchen0528/EasySheet

Mar. 2019 - Jun. 2019

- Launched a startup web application hosting online music sheet editor. Received multiple investment requests.
- Keywords: React, JavaScript, AWS EC2, AWS IAM, MySQL, Startup, Web Application, Web Development.