Yu-Hong Shen

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Education

National Yang Ming Chiao Tung University   *Hsinchu, Taiwan*
SENIOR IN B.S. COMPUTER SCIENCE   *Sep. 2021 - Now*

- Overall GPA: 4.19/4.3, Rank: 17/226
- Relevant Courses: Algorithm, Operating System, System Administration, Cloud Native, Deep Learning, Reinforcement learning, Computer Vision, Intro. to Machine Learning, Microprocessor

Publications

Mitigating Cross-Modal Distraction and Ensuring Geometric Feasibility via Affordance-Guided, Self-Consistent MLLMs for Food Preparation Task Planning
YU-HONG SHEN*, CHUAN-YU WU*, YI-RU YANG, YEN-LINT TAI, YI-TING CHEN

- Sponsored by the National Science and Technology Council (NSTC). **Project Page**.
- Proposed a method addressing cross-modal distraction and geometric feasibility of Multimodal LLMs for robotic task planning in food preparation.

Internship

CloudMile Inc.   *Taipei, Taiwan*
TECHNICAL ACCOUNT MANAGER INTERN   *July. 2024 - Dec. 2024*

- Strengthened cloud expertise through hands-on client problem-solving and cloud-native projects.
- Participated in PoCs to validate cloud solutions for clients, enhancing technical problem-solving skills.
- Designed and implemented innovative ideas for clients, successfully deploying them to production.

ASML Holding N.V.   *Taipei, Taiwan*
D&E SOFTWARE ENGINEER INTERN   *Jan. 2025 - Now*

- Conducted a comprehensive survey on Java 8 to 11 migration using OpenRewrite.
- Leveraged existing tools and implemented an automated performance analysis pipeline.

Projects

Multispeaker Transcription   *2023*
MEICHU HACKATHON ANDROID ACCESSIBILITY PROJECT   *Python, Pytorch, Kotlin, Java*

- **3rd** place in Meichu Hackthon Google group - Android accessibility. **Link**.
- Implemented an application that identify the speacker, transcript, and display the result on the cellphone.

Multi-Objective Denoising Diffusion Policy Optimization   *2024*
DEEP LEARNING COURSE PROJECT   *Python, Pytorch*

- Integrated DDPO and PGMORL in a two-stage process to approximate optimal trade-offs. **Link**.
- Evaluated with various objectives, including compressibility, prompt-image alignment, and aesthetic quality.

Lab Requirement Management   *2024*
CLOUD NATIVE COURSE PROJECT   *Next.js, Express.js, mongoDB, CI/CD*

- Implemented Docker and Kubernetes for DevOps, achieving a cloud-native architecture. **Link**.
- Monitored system performance with NetData and Uptime Kuma to ensure reliability and uptime.

Certificates

TOEIC	Total: 965 / Reading: 485 / Listening: 480
GEPT High-intermediate	Total: 225 / Reading: 117 / Listening: 108
GCP Profession Cloud Architect	Certified during Internship at CloudMile.