

Marx Yeh, You-Ming

Software Engineer

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ACADEMICS

- National Taiwan University

Information Management

Key Courses: Web Programming, Text Mining, Data Mining, Machine Learning, Deep Learning, Computer Vision, Operation Research, Social Media Analysis, Entrepreneurship, etc
- July 2021-Present

GPA: 4.26
- C.P. Wei’s Lab and H.W. Lee’s Lab

Research Assistant

Research Topics: Social Media Analysis, Deep Learning, Epidemic Modeling, Social Science, Complex System, etc
- June 2024-Present

EXPERIENCE

- Chungwa Telecom Laboratories (Work)

Full Stack Developer Intern

– Developed a backend system from scratch for dining restaurants, managing reservations data for 100+ branches and processing thousands of data entries.

– Integrated modern UI/UX, DevOps, and full-stack technologies.
- UI/UX, Frontend, Backend, Database, Devops

Jul. 2023 - Aug. 2023
- PDOGS Judge (School)

DevOps Developer

– Utilized DevOps tools (Docker, GitLab CI/CD, Jenkins) and designed CI/CD pipelines for PDOGS, a school judging system, enhancing deployment efficiency and reliability.

– Designed the Backend and the Judge Core CI/CD pipeline for PDOGS, and used Nomad to orchestrate the deployment.
- Docker, GitLab CI/CD, Jenkins, Nomad

Jul. 2023 - Aug. 2023
- NTU ArtFest Riddle City Project Manager and Developer (Other)

Full-Stack Developer and Project Manager

– Developed a customized interactive game platform using Next.js, and PostgreSQL.

– Received over 300+ players within a week
- Next.js, PostgreSQL, SupaBase, SEO

Feb. 2024 - Mar. 2024
- OneFlow (Entrepreneurship)

Founding Engineer

– Developed a SaaS for cross-border business owners to choose the best payment gateway using Constraint Programming.

– Led the development of the software and digital marketing, and managed the cloud infrastructure.
- SaaS, Web Development, Marketing, Infrastructure, AWS

July. 2024 - Present

WORKS

- Portfolio Website

A personal portfolio website. [Link](#)
- Sep. 2024
- Production Scheduling Optimization

Utilizing Operations Research to optimize the company’s production schedules. [Link](#)

– Developed a production scheduling optimization system using Python and Gurobi, which significantly improved the company’s production efficiency and expected to save over millions of dollars.

– Formulated the problem as a MILP model and implemented the Gurobi model, heuristic algorithms, and a comprehensive system for company as deliverables.
- June. 2024
- LLM Enhanced INFEKTA

An agent-based epidemic model combines the transmission dynamics of an infectious disease with agents in a complex network, enhanced

– Enhanced the INFEKTA model by integrating an LLM-based cognitive framework, enabling agents in the epidemic model to learn and adapt to their environment.

– Researched psychologically validated cognitive models and implemented an LLM system with memory streams and reflection mechanisms, resulting in more realistic agent behavior.
- Jan. 2024
- Hackathon Winning Project

A Project that Won the Prize in a ANU-NTU Students Hackathon Competition.

– Proposed a comprehensive framework for generating montage using RAG and GAN, which won the prize in the ANU-NTU Students Hackathon Competition.

– Implemented the project using cutting-edge technologies, including LangChain, RAG, and GAN model, to generate montages on iterative feedback.

TECHNICAL SKILLS AND INTERESTS

Frameworks: Next.js, FastAPI, React, Express, Flask, Gin, Pytorch, LangChain, iOS, DSPy, React Native
Tools: Docker, GitLab, Kubernetes, Nomad, Electron, Git, Gurobi, Figma, Unity, Selenium, Azure, GCP, AWS
Coding Languages: C, C++, C#, Python, TypeScript, R, SQL
Soft Skills: Entrepreneurship, System thinking and Design thinking
Areas of Interest: Technical blogging (attracting thousands of visitors)