Max Chuang
莊加旭

Software Engineer
Web Developer

⊙ Taipei, Taiwan
@ chuangjiaxu@gmail.com
🌐 www.madmaxieee.dev
github.com/madmaxieee

Education

National Taiwan University   Sep. 2020 – present

Electrical Engineering junior, GPA 3.79/4.3

Project Experience

⚙ 🔗 Light Dance Editor/Simulator Team Lead   Nov. 2022 – Mar. 2023

`TypeScript / React / Three.js / GraphQL / Prisma / Docker`

- Lead a team of 10 students to develop a full-stack application
- Designed and built the user interface and implement RWD to provide an elegant and concise layout for the users
- Built a 3D simulator with Three.js for a more intuitive user experience
- Collaborated with our back-end and hardware team to integrate the controller and the server

🔗 Portfolio Management With Reinforcement Learning   Nov. 2022 – Dec. 2022

`Python / PyTorch / Machine Learning / Reinforcement Learning`

- Developed Reinforcement Learning portfolio framework using EIIE & PVM
- Achieved results that outperformed selected asset average growth using DDPG
- Utilized Reinforcement Learning to tackle capital market complexity and maximize profit
- Demonstrated expertise in Reinforcement Learning and portfolio management.

Genie's lamp - IoT Intelligent Streetlight Network   Sep. 2021 – Nov., 2021

`C++ / Python / Mbed OS / Flask / Docker / STM32 B-L4751 board / Raspberry Pi`

- Worked with a team of mechanical engineering students to build a robot from scratch
- Integrated computer vision and machine learning to complete the several tasks

Tera-ASPer internship - Broker Management System Frontend Architecture   Aug. 2022 – Oct. 2022

`TypeScript / React / Webpack / Zustand / tailwind css`

- Designed and implemented a plugin architecture with module federation
- Built a React app that can handle production-level API query

⚙ MakeNTU - Infineon Enterprise Award   Mar. 2022

`Next.js / Raspberry Pi / tf-lite`

- Integrated image recognition on edge device for the smart recycle bin
- Built and deployed an tracking system to keep track of multiple recycle bins in a city

Skills

Python	●●●●●	TypeScript	●●●●●	git	●●●●●
PyTorch	●●●●○	JavaScript	●●●●●	docker	●●●●●
Machine Learning	●●●●○	React	●●●●●	mongodb	●●●●○
		Next.js	●●●●●	C++	●●●●○
		tailwind css	●●●●○	Go	●●●●○