

Kai-Jie Lin

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Education

National Yang Ming Chiao Tung University

Hsinchu, Taiwan

Junior year of B.S. in Computer Science

Sep. 2021 - Now

- Overall GPA: 3.82/4.0
- Relevant Courses: Algorithm, Graph Theory, Operating System, System Administration, Introduction to Machine Learning

Experience

NVIDIA - NYCU

Hsinchu

2023 Summer Research Assistantship

Jul. 2023 - Now

- Research Topic: Meta RL for Multi-Objective Bayesian Optimization

Honors & Awards

Nov. 2022 **Bronze Medal**, 2022 ICPC Asia Taoyuan Regional Programming Contest

Taoyuan, Taiwan

Oct. 2022 **Bronze Medal**, 2023 ICPC Asia Taoyuan Regional Programming Contest

Taoyuan, Taiwan

Oct. 2023 **Bronze Medal**, 2023 Meichu Hackathon Google Group - Android Accessibility

Hsinchu, Taiwan

Projects

Apply Trajectory Transformer for Quantitative Trading

Hsinchu, Taiwan

Introduction to Artificial Intelligence Course Project

May. 2023

- Developing Tool: Python, Pytorch
- Implementing some algorithms such as DQN, DDQN, Policy Gradient and Trajectory Transformer.
- Project Link: <https://github.com/KJLdefeated/Trajectory-Transformer-for-Quantitative-Trading>

Playing Chess Game using Monte Carlo Tree Search

Hsinchu, Taiwan

Theory of Computer Game Course Project

Nov. 2022

- Applied Monte Carlo Tree Search playing NoGo (A kind of chess game) with C++.
- Implemented optimization algorithms such as MCTS.
- Project Link: <https://github.com/KJLdefeated/Playing-NoGO-using-Monte-Carlo-Tree-Search>

Cellphone Rating System

Hsinchu, Taiwan

Database Course Project

Dec. 2022

- Developing Tool: Python, Django, SQL, AWS, HTML, CSS, JavaScript
- A cellphone rating system to manage the cellphone data and offer users to rate their own cellphone.
- Project Link: <https://github.com/KJLdefeated/Database-Final-project>

Multispeaker Transcription

Hsinchu, Taiwan

Meichu Hackathon Android Accessibility project

Oct. 2023

- Developing Tool: Python, Pytorch, Kotlin, Java, Android Studio
- An Android app that identify the user who is speaking. Transcript the audio and display in the app.
- Deploy ML models to Android app.

Certificates

TOEFL IBT Total: 99 / Reading: 27 / Listening: 26 / Speaking: 22 / Writing: 24

Extracurricular Activity

NYCU DJ Club

Hsinchu, Taiwan

President

Jul. 2022 - Now

- Directed and led a team of individuals in organizing and executing high-energy club events, managing logistics, and ensuring smooth operations.

SITCON 2022 Agenda Committee

Hsinchu, Taiwan

Member

Mar. 2022 - Sep. 2022

- Organized events and review agendas at SITCON (the largest student information conference in East Asia), also responsible for organizing the forum that delved into the issues of information education in Taiwan.

Self Promotion

During my first year at NYCU in the field of Computer Science, my passion for coding and machine learning algorithms flourished. I dedicated myself to honing my programming skills, delving into languages like C++ and Python, while also immersing myself in the intricacies of data structures and algorithms.

In my second year, I proudly represented my college at the ICPC Asia Taoyuan Regional Programming Contest, clinching a Bronze medal. Concurrently, I delved into research by collaborating with a laboratory on a project in partnership with NVIDIA. Termed "Meta RL for Multi-Objective Bayesian Optimization," this endeavor sought to leverage Reinforcement Learning and Transformer architecture to tackle the complexities of Multi-Objective Bayesian Optimization. Through this project, I gained invaluable experience in constructing ML algorithms using PyTorch and employing Transformer architectures.

Throughout my academic journey, I embarked on several projects within various courses. Noteworthy among them was the application of the Transformer RL algorithm to Quantitative Trading, the development of an AI agent proficient in playing GO, and the creation of a cellphone rating system using Django. These projects were instrumental in fortifying my self-learning abilities and enhancing my development skills.

Transitioning into my third year, I participated in the 2023 Meichu Hackathon—a collaborative competition that aligned me with Google for an Android accessibility project. Our goal was to design an app accessible to all users. As part of a cohesive team, we conceptualized and developed a voice-to-text transcript app capable of identifying different speakers—an innovation scarce in existing apps. I took charge of establishing server connections and deploying ML models, ensuring seamless functionality. Our efforts culminated in securing third place among many teams within the Google group during the Meichu Hackathon.

Beyond technical prowess, my leadership role as President of a student club and my involvement in the SITCON 2022 Agenda Committee have significantly contributed to my communication skills and collaborative aptitude.

In essence, I possess confidence in my abilities as a machine learning engineer and a team player. I earnestly request your consideration, believing that my blend of professionalism, creativity, and meticulous attention to detail could greatly benefit Line Taiwan.

Thank you for your time and consideration.