Jie-Ying Lee

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EDUCATION

- **National Yang Ming Chiao Tung University** — Hsinchu, Taiwan
  B.S. in Computer Science; GPA: 4.22/4.3 (Overall), 4.28/4.3 (Major) — *July 2021 - Present*
  Courses: *DS and OOP, Introduction to A.I., Introduction to Computer Networking, Computer Vision for UAV Autopilot, Competitive Programming I, Theory of Computer Games, Probability, Introduction to Algorithm, Introduction to Database System, System Administration*

EXPERIENCES

- **IT Center of Department of Computer Science, NYCU** — Linux, Kubernetes, PHP, Laravel, Vue, CI/CD, GitLab flow
  Teaching Assistant of WWW and System Group — *July 2022 - Present*
  - Developed the backend of teaching assistant contact information system using PHP and Laravel.
  - Learned how to design the database schema and write RESTful API, also used OpenAPI to write API document.
  - Understood the process of modern software development, including git version control, merge requests and CI/CD.
  - Maintained Kubernetes cluster and workstations used in CS department in system group. Also had experience in surveying Fluentd and fluent bit.

- **PCS Lab** — GAN, Python, Scientific Research
  Research Assistant — *July 2021 - Present*
  - Conducting a research about using GAN and CNN to generate realistic 3D terrain model.

PROJECTS

- **Camp Management System (Vue.js, Nuxt.js, Vuetify.js, PostgreSQL, Python, Django)**: Final project of introduction to database system. Using Nuxt and Vuetify to create a modern-look frontend. Also used Django as backend to create a RESTful API server. Link (Jan. 2023)
- **AccountingTGBot (Python, Firebase, CI/CD, Heroku)**: A simple accounting bot that allows users to record expenses via the Telegram application. Link (Jun. 2022)
- **pix2pix-terrain-generator (Python, GAN, Unity, Web Development)**: Using height maps and satellite images to train a GAN model that can be used to generate a realistic terrain model. Also developed a web client and a Unity client to make model can be used more easily. Link (Jul. 2020)
- **UbikeAnywhereBot (Python, API, Crawler)**: A telegram chat bot that can plan the route. After users tell our bot the destination, our bot can automatically find the nearest available Ubike station and give users the route to the returned station. Link (Jul. 2019)

AWARDS

- **Marconix Award of 19th Marconix Science Award**: Top award in Marconix Science Award. The only recipient wthin 6 years.
- **Second Place in 60th National Primary and High School Science Fair**: Awarded the best work at the 60th national science fair (The first place is absent) out of 8 all participants who are the first place from cities in Taiwan.
- **Fourth Prize in 2021 Taiwan International Science Fair**: Be awarded the fourth prize out of 21 participants from world.
- **Bronze Award of The 2022 ICPC Asia Taoyuan Regional Programming Contest**: Thirty-second place out of 100 teams. Second place of the bronze award.
- **Academic Achievements Award in 2022 Fall Semester**: Top 5 % in the class.
- **Academic Achievements Award in 2021 Fall Semester**: Top 5 % in the class.
- **Fundamental Course Award of Discrete Mathematics**: First place out of 92 students.
- **Fundamental Course Award of Digital Circuit Design**: Second place out of 121 students.
- **Fundamental Course Award of Data Structures & Object-oriented Programming**: First place out of 88 students.
- **Fundamental Course Award of Introduction to Algorithms**: First place out of 111 students.

EXTRACURRICULAR ACTIVITIES

- **NYCU Taoyaun Association**
  President — *July 2022 - Present*
  Led 60 members from various of departments in NYCU to organized welcoming camp, campus tour for over 50 students from Taoyaun, Yunlin and Chiayi. By engaging in activity preparation, I acquired the skills to effectively communicate and collaborate with individuals from diverse backgrounds.

- **SITCON 2022 Agenda Committee**
  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.

- **Wu-Ling High School Information Study Group**
  Co-founder, Leader and Lecturer — *Sep. 2019 - Jul. 2021*
  Found the study group in the second year of high school. Teaching over 60 students basic C++, data structure and algorithms, also holding programming competitions to encourage learning.