Pei-Yun Jan

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EDUCATION

National Taiwan Ocean University.   *Feb. 2021 – Jun. 2023*
Bachelor of Science in Computer Science and Engineering

National Taitung University,   *Sep. 2019 – Jan. 2021*
Degree in Computer Science and Information Engineering
- Attained a position on the Dean's List for the Spring of 2020.

RESEARCH EXPERIENCE

Dynamic Tracking System for Electronic Fishing Net Markers   *Jan. 2022 — Jan. 2023*
Advised by Dr. William Hsu
- Achieved the "Award for Excellence" in the 2022 Research Competition.
- Designed and implemented by leveraging Raspberry Pi Zero W, GPS, EMS, and Python for Long-Range wireless data reception.
- Applied the Point in Polygon algorithm for precise data analysis and consolidation.
- Developed a search-enabled web application, connecting to a MongoDB database through the Flask framework and visualizing dynamic location changes on a map using CesiumJS.

WORK EXPERIENCE

Part-time Employee in the Technical Service Division   *Sep. 2019 — Jun. 2021*
National Taitung University Library
- Managed journal electronic database access, cataloging, and maintenance.
- Monitored, maintained, troubleshooted, and resolved electronic equipment, software, hardware, and network-related issues.

COURSE PROJECTS

"Mask Tycoon"   *Fall 2021*
Course: Database Management System
- Developed a mask ordering platform using technologies such as Ajax, PHP, and SQL, enabling user orders, order updates, and management.
- Enhanced user experience by implementing SweetAlert2 and responsive design for interactivity.

"Engrave" English Learning Application Platform   *Spring 2021*
Course: JAVA Programming
- Utilized Java and Firebase to incorporate user login, registration features, and personal learning record tracking into the platform.

Taitung Dulan Tribe Website Introduction   *Fall 2019*
Course: Interaction Technology on Worldwide Web
- Integrated HTML, CSS, JavaScript, and ASP to enhance tribe visibility and tourism appeal.

ACTIVITIES

Participant in the Collegiate Programming Examinations, Association of Taiwan Computer Programming Contest   *Apr. 2020 — Mar. 2021*
- Undertook examinations aimed to evaluate the programming skills of college students and professionals through on-site practical tests covering a range of difficulty levels.
- Completed four exams, achieving results in analysis and problem-solving within the top 30%.

Participant in the International Collegiate Programming Contest Asia Taiwan Online Programming Contest, Association for Computing Machinery   *Oct. 2020*
- Collaborated in teams of three to tackle a series of algorithmic and mathematical problems.
- Engaged in competition problem sets spanning various computer science domains, including data structures, algorithm design, graph theory, dynamic programming, and more.

SKILLS

Computer Skills: Proficient in Python, Java, C/C++, PHP, SQL, VHDL, Verilog, Assembler, ASP, Lisp