

Hsiang-Yu Tsou

SOFTWARE ENGINEERING · MACHINE LEARNING · WEB DEVELOPMENT

Taoyuan, Taiwan

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Education

National Central University (NCU)

Taoyuan, Taiwan

Undergraduate, Information Management, Computer Science and Information Engineering (Double Major)

Sep. 2020 - Exp. Jun. 2025

- **GPA:** Accumulative - **4.04/4.3**, Last 60 - **4.27/4.3**
- **Honors:** Presidential Award * 3 (F '22, S '23, F '23), Dean's Award * 1 (Junior year)
- **Selected Courses:** Artificial Intelligence and Machine Learning, Spring 2022 (**A+**), Data Structures, Fall 2022 (**A+**), Algorithms, Spring 2023 (**A+**), Database Management, Spring 2022 (**A+**), Systems Analysis and Design, Fall 2022 (**A+**), Software Engineering Practices, Fall 2023 (**A+, PhD-MS**), Operating System, Spring 2024 (**A+**), Computer Architecture, Spring 2024 (**A+**), Object-Oriented Analysis and Design, Spring 2024 (**A+, PhD-MS**)

Honors & Awards

Dec. 2023 **Dean's Award**, School of Management at NCU

NCU

Nov. 2023 **Honorable Mention**, Information Application, 28th InnoServe Awards

Taipei, Taiwan

Nov. 2023 **Best Potential Award**, Landseed Smart Health Care and Sports Medicine, 28th InnoServe Awards [4/98]

Taipei, Taiwan

Sep. 2023 **1st Place**, 2023 Departmental Project Competition, NCU IM Dept.

NCU

2022-2023 **Presidential Award for top 5% students * 3**, NCU IM Dept. (Fall '22, Spring '23, Fall '23)

NCU

Research Experience

Fine-Tuning Optimization Mechanism for Large Language Models

Advisor: Prof. Tzong-Han Tsai & Hung-yi Lee

Undergraduate Intern, Industry-Academia Research Project with Delta Electronics (Under NDA)

Feb. 2024 - Expected Aug. 2024

- Conducted various model training and fine-tuning techniques for specific domains.
- Developed methods to enhance model evaluation processes for multiple-choice question-answering tasks.
- Worked on integrating advanced features to improve the conversational abilities of language models.

A General-Purpose Smart Screening Checklist System

Advisor: Prof. Ya-Han Hu

Undergraduate Intern, Industry-Academia Research Project with Chia-Yi Christian Hospital (Under NDA)

Feb. 2023 - Feb. 2024

- Awarded the College Student Research Scholarship by the National Science and Technology Council (NSTC), Project No. 112-2813-C-008-017-H.
- Developed a treatment checklist system to reduce cognitive overload for doctors in electronic medical record (EMR) systems.

Work Experience

Website Developer, Center for Academia and Industry Collaboration

NCU

Joomla! CMS/Linux

Jan. 2024 - Present

- Integrated four websites developed using different technologies and resolved system issues.

Management Information System Executive, Graduate Institute of Art Studies

NCU

ASP.NET/CSS/SQL Server/IIS

Jun. 2022 - Present

- Website Maintenance: Directly managed and updated website design and features, ensuring an engaging user experience.
- IT Support for Non-technical Users: Provided comprehensive IT support to non-technical staff, including professors and students.

Selected Projects

UML Editor [\[GitHub\]](#)

Mar. 2024 - Jun. 2024

Java Swing/SonarLint

Mini LISP Interpreter [\[GitHub\]](#)

Dec. 2023

Lex/Yacc

Face Recognition Application [\[GitHub\]](#) [\[Demo Video\]](#)

May. 2023 - Jun. 2023

Python/OpenCV/Sqlite3/RetinaFace API

CarryU Online Course Platform - Full Stack Website [\[GitHub\]](#) [\[Demo Video\]](#)

Nov. 2022 - Feb. 2023

ReactJS/NodeJS/ExpressJS/TailwindCSS/MongoDB/NPM/GCP

Skills

Back-end NodeJS, ExpressJS, Spring Boot

Front-end ReactJS, TailwindCSS, Redux, SASS

Database MySQL, PostgreSQL, MongoDB

Programming C++, Java, Python, JavaScript, Shell Scripting, Lex/Yacc

Dev Tools Git, Linux, Docker, Jenkins, Drone CI