

Yu-Sen Chao (Sen)

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EDUCATION

National Taiwan University

M.S. in Electronic Engineering, EECS (Cyber Security Group)

Sept 2023 - Expected June 2025

- Internet Research Lab: 5g/b5g and LEO-SAT communication. i.e. modulation techniques, machine learning applications.

B.S. in Engineering Science and Ocean Engineering (ECE Group),

Double Major in Bioenvironmental Engineering

Sept 2018 - June 2023

EXPERIENCE

MoBagel: A startup focuses on no-code AI solutions.

Taipei, Taiwan

Machine Learning SWE Intern at CoreX Team

July 2022 - Oct 2022

- Developed a user-centric Decanter AI SDK to simplify the integration of Decanter AI into Python applications.
- Implemented functionalities for data uploading, model training, and prediction, enhancing the usability of the SDK.
- Constructed and maintained CI/CD pipelines, automated testing and building processes using GitHub Actions.
- Attained a code coverage rate exceeding 90% through the implementation of test cases and the coverage.py tool.
- Aligned goals and expectations with the clients by incorporating their feedback into the development process, which included constructing more user-friendly SDK workflows.

LooPick: Taiwan's most comprehensive eco-friendly delivery and tableware rental services.

Taipei, Taiwan

Software Developer Lead

June 2021 - Now

- Developed group ordering system website using React, EXPRESS, MongoDB, mysql, RESTful API and Node.js.

ICAN Lab (intelligent communication and networking lab)

Taipei, Taiwan

National Taiwan University (NTUESOE)

Sept 2021 - June 2023

- Predicted tourist crowd using SVM, ARIMA in the scenario of the tail end of the COVID-19 pandemic.
- Conducted Time Series & ML research supported by the Ministry of Science and Technology, ROC.

PROJECTS

QR Decomposition HDL module development in MIMO demodulation

Taipei, Taiwan

Computer-aided VLSI System Design Project

Sept 2023 - Jan 2024

- Developed a QR Decomposition Engine based on Modified Gram-Schmidt method using verilog.
- Improved clock frequency from 80MHz to 200MHz by pipelining and rescheduling the divider and multiplier.
- Utilized software tools to analyze trade-offs between resources and error rates, generating golden patterns for hardware output validation.

The Lalu Hotel reservation management website

Taipei, Taiwan

Full Stack Developer

June 2022 - Mar 2023

- Designed and Developed an company internal reservation management website using MERN stack, typescript and pdf.js.

Web 3.0 Applications

Taipei, Taiwan

- Designed and Developed web3.0 websites as a full-stack developer using MERN stack and Metamask.

• NFT Website Development, URL: <https://dnms-93f6b.web.app/>

June 2021 - Nov 2021

• Dapp Chef: A smart contract practicing web side, <https://chihaolu.gitbook.io/dappchef/>

Jan 2023 - Mar 2023

AWARDS

- Bachelor's Thesis Masterpiece Award titled "Developing a service for estimating human traffic in a specific region using machine learning and causal analysis" at National Taiwan University.
- TDX big data application competition, Merit Award - MOTC, ROC.

SKILLS

Programming: Python, C/C++, Java, Javascript, git, Verilog, node.js, RESTful API, Mysql, MongoDB

Language: English and Mandarin Proficient (Proficient, TOEIC golden certificate).