

EDUCATION

NTNU, TAIPEI

國立臺灣師範大學

- Major: Computer Science and Information Engineering, MS June 2025 - Present
- Major: Computer Science and Information Engineering, BS Sep 2021 - June 2025
- Programming Coursework: Data Structures & Algorithms, Software Engineering
- Computer Vision Coursework: Data Visualisation, Image Processing, Computer Graphics
- ML/DL Coursework: Data Mining, Artificial Intelligence, Neural Network, Machine Learning

EMPLOYMENT

Software developer, Intern	意向科技(startup)	Jan 2025 - June 2025
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AI Agent solution for enterprise

- Integrated DeepDoc OCR technology to accurately extract and spatially map text content from PDF files, enabling enhanced document understanding and downstream automation.
- Implemented schema-aware validation mechanisms to ensure generated SQL queries conform to existing database structures, reducing errors and improving query accuracy
- Leveraged knowledge in backend web development, Python, Git, SQL, DeepDoc OCR, LLM, AI agent frameworks

SOFTWARE PROJECTS

Taekwando Sidekick Grading App:

- Developed an iOS application using Swift to provide taekwondo athletes with instant feedback on sidekick performance.
- Integrated Google's ML Kit Pose Estimation SDK for real-time skeletal pose visualization.
- Incorporated a pre-trained CNN model with 96.3% accuracy to deliver fast grading responses.
- Designed and implemented a backend server using PostgreSQL and Nginx as a reverse proxy.
- Utilized: Swift, SwiftUI, PostgreSQL, Flask, Nginx, docker, Blaze pose

COURSE

OOAD - Collaborative Study Productivity Website

- Developed rich text editing capabilities using Lexical framework, enabling advanced formatting and image embedding for enhanced note-taking.
- Built backend services with AdonisJS to support real-time data sync, user authentication, and note management.
- Developed a comprehensive search feature supporting both global and tag-specific searches across notes, enabling users to quickly locate relevant information and improve productivity.
- Utilized: TypeScript, React, Lexical, AdonisJS, PostgreSQL

Artificial Intelligence Intro - Fake News Detection:

- Conducted a comparative analysis of machine learning and deep learning models (KNN, Random Forest, CNN, LSTM, FNDNET) on ISOT and Kaggle datasets.
- Implemented pre-trained word embeddings (GloVe) for input vectorization, enhancing model performance.
- Utilized: Python, TensorFlow, GloVe, Pandas, Matplotlib.

Database - Course Rating Website:

- Scraped course data from the school's website using Selenium and Beautiful Soup, and structured data into a schema format.
- Managed server-side requests with PHP and contributed to frontend design using HTML/CSS.
- Utilized: HTML/CSS, PHP, Selenium, Beautiful Soup

SKILLS

Software: C/C++, python, Swift, SQL Language: TOEIC 935