



Hugo ChunHo Lin

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Major: Dept. of Atmospheric Science, NCU.

Minor Specialty: Dept. of CSIE, NCU.

Program: Interdisciplinary AI Program, NCU.

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EDUCATION

•National Central University

Sep. 2020 - present

Bachelor scholarship

- Mater: Department of Atmospheric Science
- Specialty Minor: Department of Computer Science & Information Engineering
- Program: Interdisciplinary AI Program

WORK EXPERIENCE

•Teaching Assistant

Aug. 2022 - present

Teaching Assistant in the course "Freshman English", NCU.

•Website Administrator

July. 2022 - Jan. 2023

Manage the data in website, server maintenance, the center for Teaching Education, NCU.

- Manage website data and maintain the server.
- Launch a project aimed at developing a system to manage and track student progress.

•Teaching Assistant

Feb. 2021 - Jun. 2021

Teaching Assistant in the course "Student Service-Learning", NCU.

EXTRACURRICULAR ACTIVITY

•NCUFresh Team(NCUBlog)

Dec. 2021 - Jul. 2022

Website developer team for the incoming freshmen admitting to NCU.

- The essential experience of manage larger projects with teammates.
- Frontend skills: UI/UX, Figma.
- Teamwork: leadership, meeting arrangement, facilitating communication, project demo.
- Marketing: increase social media reach, content of films and articles.

•NCUApp Team(UI/UX & Marketing)

Mar. 2023 - present

APP developer team for all the members at NCU.

- The crucial experience of manage existing projects with teammates to make the functions more completely.
- Frontend skills: React Native, UI/UX, Figma.
- Marketing: product listings, map functionality.

•Co-captain(Basketball Team)

Aug. 2022 - present

Basketball Team Co-captain in my department, Dept. ATM, NCU.

PROJECTS(ML)

•CNN Handwriting Detection

Jun. 2022

A CNN-driven method for detecting and classifying handwriting.

- The first project of neural network.
- Test Accuracy: Up to 97.12%
- What I have done: Solve overfitting, practice building types of layer.

•Rainy Percentage Prediction

Jun. 2022

ML-based estimation of the chance of rainfall.

- Combine the Atmospheric Science with AI(tradition v.s. technology).
- Exploring how the new capabilities of AI will change the future of rainfall prediction.
- What I have done: Data mining(20 yrs), model training, represent results on web(python flask).

•Kaggle Competition

- present

Some practice about the Machine Learning.

- [Top 5%] Titanic Score: 0.79425, (Team: 628/15112).
- House Price Score: 0.13277, (Team: 1288/4321).
- New York Taxi Fare Score: 4.03472, (Team: 984/1483).

MORE PROJECTS

•Workout App

Jun. 2022

A Workout App to the fitness novice

- My first app with Java using the JavaFx framework.
- Getting used to the concept of the "Object Oriented Programming."
- What I have done: User Interface, Workout scheduled.

•Thermal Calculator

Jan. 2023

The Numerical Analysis Method with the Agricultural Meteorology.

- Applying the Science Method to develop the product.
- Creating the user interface with the TKinter.
- What I have done: Data mining, login system, App.

•Hua Tank

Jan. 2023

Develop a game using Assembly Language reminiscent of the old-school classics.

- Getting used to the concept of the Low-level program architecture, such as esp, esi, eax, etc.
- What I have done: Main game function, User Interface.

RESEARCH INTERESTS

•Fooling and misleading AI/ML to believe some benign devices are malicious ones.

Advisor: Dr. Fu-Hua Hsu.

•Use ML/DL to improve the analysis in meteorology with Data Bank for Atmospheric & Hydrologic Research.

Course: Weather and Artificial Intelligence II.

TECHNICAL SKILLS

Languages: Python, c/c++, Java, Assembly, JavaScripts, LaTeX, etc.

ML/DL: Keras, Tensorflow, Scikit-learn, Numpy, Pandas, etc.

Developer Tools: VSCode, Vim, Pycharm, Jupyter notebook, etc.

Cloud/Databases: Colab, AWS, mySQL.

Soft Skills: Git, GUI, line bot, blog.

Coursework: More Information on my GitHub or my Personal Website.

ACHIEVEMENTS

•TOEIC 690 Listening: 355; Reading: 335

Mar. 2023