

Kevin Cheng

Software Development & AI Research Specialist

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<https://github.com/Ping-Sung>

Recent Management Information System Graduate with 3+ years of experience in software development, 2+ years of experience in AI research and AI-based application development. Adept at utilizing Laravel, Django, and ReactJS to deliver innovative solutions.

SKILLS

- **Programming Language:** Python, PHP, JavaScript
- **Operating System:** Windows Server, Linux (GPU & Jetson Nano), Docker
- **Web Development:** PHP Laravel, Python Flask, Python Django, ReactJS
- **Deep Learning:** Pytorch, PyG, Keras, Pandas
- **Languages:** Mandarin (fluent), English (fluent), Japanese (intermediate)

EXPERIENCE

Military Service, Republic of China Armed Forces

Private

Taichung, Taiwan

Jan. 2023 - May. 2023

- Completed basic training and performed various duties, including guard duty and maintenance tasks.

National Chung Hsing Uni. / Occupational Safety and Health Administration, MOL

Project Research Assistant

Taichung, Taiwan

Feb. 2021 - Feb. 2022

- Implemented AI safety identification technology improvement plan for structural steel construction sites using edge computing architecture.
- Participated in the deployment of edge computing system utilizing Jetson Nano.
- Trained AI models with Pytorch, including object detection and semantic segmentation models, dangerous behaviour detection, and data annotation.
- Achieved a high F1-score for both helmet detection (93.51%) and hook detection (97%) through the use of object detection model.
- Completed 60% of the documentation for this project and served as the presenter for mid-term report.

National Chung Hsing Uni. / Taiwan Semiconductor Manufacturing Co., Ltd

Project Research Assistant

Taichung, Taiwan

Aug. 2021 - Dec. 2021

- Trained in deep learning models including object detection models, dangerous behaviour detection and data annotation.
- Contributed to the project's success by designing and implementing accurate and efficient deep learning models. The mean average precision of the object detection model achieved 99.77%, and the average IOU reached 84.46%.

WANIN International Co., Ltd.

Backend Developer

Taichung, Taiwan

Mar. 2020 - Dec. 2020

- Led the development of the Book Donation Management System Platform and Image Website Development project.
- Responsible for 50% of the RESTful APIs design with PHP Laravel and database design with MySQL.
- Designed the lending and returning workflow of the library system.

PROJECTS

Minimum Viable Product of an Invoice Recognition System

Nov. 2022 - Jan. 2023

- Developed an invoice recognition system that helps the accounting firm shorten their reimbursement process with Azure AI services, which streamlined work flows and reduced the process time by 40%.
- Employed the full stack website design with Python Flask framework.
- Designed a minimum viable product through extensive communication with stakeholders and understanding business needs.

EDUCATION

National Chung Hsing University

Master of Business Administration in Management Information System, GPA: 4.18 / 4.3

Taichung, Taiwan

Sept. 2020 - Jun. 2022

National Taichung University of Science and Technology (Elite Program)

Bachelor of Information Management, GPA: 3.98 / 4.0

Taichung, Taiwan

Sept. 2018 - Jun. 2020