PO-WEI WANG

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EDUCATION

National Central University (NCU) **Taoyuan, Taiwan**

B.S. in Computer Science & Information Engineering Sep. 2017 - June. 2021

- Overall GPA: 3.3/4.0
- Last 60 GPA: 3.84/4.0

WORK EXPERIENCE

Research Assistant NCU Deep Learning and Media System Lab, Taiwan Mar. 2018 - Present

- Developed an access control system using face recognition by OpenCV, TensorRT with 98% accuracy and 4 fps
- Built a face anti-spoofing system on embedded cameras using Tensorflow and cross compiling with 91.4% accuracy
- Structured a real-time speech recognition system which intercepts voice from a running application and recognizes it using Windows API Hooking and cloud computing

AI Engineer Intern SINBON Electronics, Taiwan Jul. 2020 - Aug. 2020

- Automated manufacturing by recognizing information on products' ID stickers using Optical Character Recognition, object detection and segmentation, achieving 97.2% accuracy
- Led the intern team with 3 members by scheduling, structuring projects, and hosting meetings etc.

Python Software Engineer Intern SkyREC, Taiwan Apr 2019 - Oct. 2019

- Trained face age/gender classification models using MXNet
- Increased accuracy of face age classification by 4% with transfer learning

PROJECTS

PINE - Web-based machine learning model training platform

- A website for users to train machine learning models without coding
- Utilized by a Mechanical Engineering Lab in NCU to train their solder joint Automated Optical Inspection task using CNN by reading instructions that took less than 10 minutes

AWARDS

Automatic rice plant position labeling on true color images by UAS and its applications

Apex Agri-Intelligence Lab, Taiwan Jul 2019

- Used YOLO with other computer vision algorithms to detect rice plant from huge aerial shot (2000 x 3000 px)
- 6th place out of 523 teams all over Taiwan

Intelligent Innovation and Interdisciplinary Creation Contest

Department of Computer Science and Information Engineering, NCU, Taiwan Jul 2019

- Developed an Android application to automatically check market price of fruits and vegetables by taking photos using Tensorflow Lite, and web scraping
- 11th place out of 94 teams all over Taiwan

SKILLS

Languages	C/C++, Python, Java
Tools & Libraries	Linux, Git, Docker, CMake, MongoDB, Qt, OpenCV, Tensorflow, MXNet, TensorRT
Concepts	OOP, Design Patterns, Algorithms, Deep Learning, Unit testing, Modern C++

EXTRACURRICULAR ACTIVITIES

International Volunteer at Nepal Jul 2019

- Helped constructed 3 temporary shelters for residents whose house were destroyed by 2015 Nepal earthquake
- Held a summer camp with science experiments for local children