HUNG-YEN TSENG

Email : tony871107@gmail.com | LinkedIn

SUMMARY

A graduate student in the NTU CSIE department, specializing in Machine Learning and Deep Learning. On top of that, had also been experienced in developing tools on the cloud service such as AWS and GCP with the integration of CI flow.

EDUCATION

National Taiwan University, Taipei, Taiwan — ***Feb. 2021 - Present***

M.S. in Computer Science and Information Engineering — ***Overall GPA: 4.18 /4.3***

National Tsing Hua University, Hsinchu, Taiwan — ***Sep. 2017 - Feb. 2021***

B.Sc. in Electrical Engineering — ***Overall GPA: 4.21/4.3***

University of California, Berkeley — ***Jul. 2018 - Aug. 2018***

Summer Session ESL courses — ***Overall GPA: 3.7/4.0***

SKILLS

Language:	**English(TOEIC 920), Chinese(Native)**
Certificates:	**TensorFlow Developer Certificate**
Frameworks/Libraries:	**Pytorch, Tensorflow, Scikit Learn, MySQL**
Programming Language:	**Python, C++, Matlab, Verilog**
Others:	**Git, Linux, GCP, AWS, BigQuery, OOP**

MASTER THESIS

Burst Image Super-Resolution - Advisor: Yung-Yu Chuang — ***Feb. 2022 - Present***

- **I aim to reconstruct the super-resolved images from a burst of low-resolution raw images while retaining local details.**
- **Achieve better visual results but slightly lower objective evaluation metrics than SOTA.**

WORKING EXPERIENCE

[Intern] Asus Inc. @ AI Solution — ***Jul. 2022 - Present***

- **Build a general storage system for CV datasets and accelerate data transfer speed for 30% based on open source project.**
- **Build a web platform to manage and display data in the storage system.**
- **Research on image alignment methods associate with anomaly detection.**

[Intern] MediaTek Inc. @ Computing and AI III department — ***Jul. 2020 - Aug. 2020***

- **Transfer local database storage to Google BigQuery.**
- **Build and maintain a web platform to visualize data on BigQuery.**
- **Research on wafer anomaly detection and get 80% accuracy.**

[Intern] TERA THINKER - Backend Engineer

- **Deploy and integrate backend GitHub code to the AWS Lambda service (CI).**
- **Manage, query, and interact with the Aurora database.**

COMPETITION

[Theory of Computer Games] EinStein würfelt nicht! - NTUCSIE ***Rank: 1/28***

- **Language: C++, Github link**
- **A board game in that each player's step is determined by the result of the dice.**

[Image Detection] Skull Fracture Detection - NTUEE DLCV ***Rank: 1/11***

- **It is an object detection competition on the medical images, and we achieved 92.5% accuracy on the case level and 0.75 on the F1 score, which outperforms other teams on both criteria.**

TEACHING ASSISTANT EXPERIENCE

EE 240500 Embedded System Laboratory, Spring 2019

- **Write a lab tutorial of image classification on OpenMV H7+**

CSIE 7694 Digital Visual Effects, Spring 2022

PROJECTS

RPG Battle ***Apr. 2021 - Apr. 2021***

- **Language: Java, Github link**
- **This project shows how to merge different structural and behavioral requirements to corresponding interfaces by the dependency inversion rule in OOP.**

Deploy Style Transfer on the Android Devices ***Dec. 2019 - Jan. 2020***

- **Trained Style transfer models on GCP and use TVM to cross-compile.**
- **2 seconds to transfer the style of an image. (On Samsung s7 edge)**

AWARDS AND HONORS

Academic Excellence Award *3 ***Academic Year 2017-2019***

Excellent Student Scholarship of EE Department,NTHU ***Summer 2018***

The Zhu Shun Yi He Qin (朱順一合勤) Scholarship, NTHU ***Jun. 2020***

EXTRA CURRICULAR

1. **Administration Section in NTHU cooking club and Alumni Association**
2. **First place of Hackathon held by Colde Garage @ NTHU EECS 822.**
3. **Kaggle inclass challenge 1st place (DSP Lab)**