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Skills ___

Programming languages: Proficient in Python, Previously used Java, C++

Pytorch, TensorRT, XGBoost, scikit-learn, OpenCV, Git, Luigi, AWS, Android Tools:

Experience ____

Aegis Technology Phoenix, AZ

FOUNDING ENGINEER

Mar 2022 - Present

· Design and build fire hazard machine learning PoC for large scale semiconductor fab plant

Careplus.ai Hsinchu, Taiwan

CHIEF TECHNOLOGY OFFICER

Feb 2021 - May 2022

- Designed and developed a Machine Learning enabled home-caring system which introduced intelligent ambient awareness powered by our modularized inference components, delivering features that prevents 90% or more of the accidents and continuously adapting to current environment and new behaviors.
- Developed custom MLOps framework for automation pipeline to perform self-annotation, active-learning, performance evaluation and model deployment to cut down 90% of the human resources and maintain 99% of system availability and reliability

Prof. Min Sun, Tsing Hua University

Hsinchu, Taiwan

RESEARCH ASSISTANT

July 2020 - Feb 2021

· Researched and developed modularized Machin Learning inference components including object detection, object tracking, poseestimation, action-recognition and person re-identification, which can speed up task-specific domain adaptation up to 80% and cut down 50% of development time.

Industrial Technology Research Institute

Hsinchu, Taiwan

SOFTWARE ENGINEER

July 2019 - July 2020 • Customized SOTA deep learning backbone networks including Mobilenet, Darknet-53 and CSPNet, combined with SSD and Yolov3/v4

detection network and object tracking algorithms, deployed an object detection system for self-driving vehicles with above 90% intraclass averaged mAP and f1 score.

Prof. Sanjib Sur, University of South Carolina

Columbia, SC

RESEARCH ASSISTANT

Sep 2018 - May 2019

· Researched and designed a DNN steering angle prediction model built with Tensorflow framework, we introduced novel convolutional blocks to learn and extract additional high dimensional features with 20% faster model forward time and 10% higher mAP over benchmark dataset.

California Partners for Advanced Transportation Technology

Richmond, CA

RESEARCH INTERN

June 2018 - Sep 2018

• Developed tools to help construct 3D pointcloud vector map for autonomous vehicle's SLAM algorithm and route planning while utilizing PPP GPS to correct the margin of error to achieve 90% accuracy.

Education _

University of South Carolina

Columbia, SC

MS IN SOFTWARE ENGINEERING

Aug 2017 - May 2019

GPA: 3.9

Chang Gung Unversity

Taoyuan, Taiwan

BS IN ELECTRICAL ENGINEERING

Sep 2010 - Jan 2016

GPA: 3.4