Chia-Hao (Kaka) Lin

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Education

- M.S., Bio-Industrial Mechatronics Engineering | National Taiwan University | 2013-2015
    - Thesis title: "Design and Simulation of a Suspension System for Agricultural Transporters"
- B.S., Vehicle Engineering | National Taipei University of Technology | 2009-2013

Work Experience

- Inventec | Software Engineer | Taipei, Taiwan | 2018-Now
    - `Advanced Driver Assistance Systems (ADAS) applications`
        * Developed ADAS applications based on image processing, and deep-learning-model, like `LDWS`, `FCW`, and `BSD`.
        * Deployed these ADAS applications to different hardware, like `NXP` or `Xilinx` platform.
    - `Driving record application (C/C++)`
        * Running on Embedded Linux and Android.
        * Developed GUI with Qt/QML.
        * For Embedded Linux, we using Yocto for building the system.
    - `Recovery tool (C/C++)`
        * For our system (IVI), when it encounters dead or some unexpected situation, can use this tool to recover to the initial status.
        * Developed GUI with Qt/QML.
    - `Labeling tool`
        * For labeling our dataset.
        * Using React.js and Django.
    - `Model transform platform`
        * Transform deep learning model into different framework, like tflite to onnx.
- FARADAY | Software Engineer | Taipei, Taiwan | 2017-2018
    - Developed production testing system
    - Developed App that can receive data of electric motorcycle by BLE

- Build CI/CD use gitlab

- FARADAY| Mechanical Engineer | Taipei, Taiwan | 2015-2017

  - Drawing components of electric motorcycles with SolidWorks(3D) and AutoCAD(2D)
  - Building and Maintaining manuals and BOM of components
  - Managing ERP system

Other Experience

- PyCon Taiwan | developers to maintain the official website and the proposal submission/review platform, and build the landing page with React.js | 2021
- WiDS | Lecturer of MLCC Workshop | Taipei, Taiwan | 2019
- Google | TA of MLLCC Trainer Camp | Taipei, Taiwan | 2018
- Google | TA of AI Boot Camp | Taipei, Taiwan | 2018
- Google | TA of AI Teacher Camp | Taipei, Taiwan | 2018

Technical Skills

- Programming Languages: C/C++, Python, Rust, Javascript
- ML/DL: Tensorflow/Keras, scikit-learn
- Front-end related: React, Redux, React Native
- GUI: Qt
- DevOps tools: Git, Docker
- Systems: macOS, Ubuntu, Embedded Linux
- Others: gRPC (C++, Python)

Course

- Udacity Self-Driving Car Engineer Nanodegree (In progress)
- Computer programming (C/C++)
- Deep Learning Specialization(5 courses)
- Machine Learning Foundations
- Machine Learning (2017,Fall)
- The Complete React Native and Redux Course
- Modern React with Redux