Ming Feng, Li

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EDUCATION

National Cheng Kung University **Tainan, Taiwan**
Bachelor of Science in Electrical Engineering 2017 September – 2021 January

- **GPA:** 4.2 / 4.3
- **Honors:** Outstanding Student For the Academic Achievement in The School Year 2018-2019, 2020 (spring)

National Tsing Hua University (Vision Science Lab) **Hsinchu, Taiwan**
Master of Science in Electrical Engineering 2021 September – now

- **Relevant Coursework:** Computational Photography / Natural Language Processing / Parallel programming

WORK EXPERIENCE

Mirle Automation Corporation **Hsinchu, Taiwan**
Software Engineer Intern 2021 July – 2022 March

- My Contribution
  - Survey papers and consider the feasibility and efficiency of the algorithm in practical cases.
  - Developed a tool to verify the efficiency of multi-agent path-finding algorithms for warehouse robots.

COMPETITION EXPERIENCE

2019 Civil IoT Data Application Competition (Honorable Mention) **MOST, Taiwan**
Team Member, Knowledge and Information Discovery Lab 2019 October – December

- Developed an air quality prediction model based on CNN+LSTM using open data combined with Line-bot notification and interaction functions.
- My Contribution
  - Extracted key features through regression analysis for model training.
  - Developed the Line-bot for weather and air quality forecast.

2020 Intelligent Innovation and Interdisciplinary Creation Contest (Honorable Mention) **NCU, Taiwan**
Team Leader, Gonna 2020 July – October

- Developed a time management application with social functions on iOS.
- My Contribution
  - Constructed the proposal and the software requirement specification.
  - Developed and tested the application on the iOS platform.

SKILLS

Python (TensorFlow, PyTorch)

- Built stock prediction and planning models based on evolution and deep learning approaches.
- Trained an emotion recognition multi-classification model on the GoEmotions dataset and improved the macro-f1 by 6% compared to the original result.
- Implemented several multi-agent path-finding algorithms with building a simulator for warehouse robots and combined with RL approaches for system controlling to improve throughput.

C++ (CUDA, OpenMP, Pthreads)

- Accelerated programs that solving all-pairs shortest path problems based on the Blocked Floyd-Warshall algorithm using CUDA combined with MPI.

iOS (Swift)

- Developed a time management application with social functions and a scheduling algorithm for events.