Tsung-Han **Ho**

Backend Engineer

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Education

National Cheng Kung University   *Tainan, Taiwan*
M.S. IN COMPUTER SCIENCE & INFOMATION ENGINEERING (CSIE)   *Sep. 2019 - Aug. 2021*

- GPA:4.17/4.30
- Thesis Topic: A Multi-Scale Thermal-to-Visible Face Synthesis System with Studies of High-Frequency Information and Race Bias Issues

National Taiwan Ocean University   *Keelung, Taiwan*
B.S. IN COMPUTER SCIENCE & INFOMATION ENGINEERING (CSIE)   *Sep. 2015 - Jun. 2019*

- GPA:3.9/4.0
- Overall Rank:3/54
- Selected as one of only 3 students in class to receive Academic Excellence Awards, Spring 2019

Experience

Emotibot   *Taipei, Taiwan*
SOFTWARE ENGINEER   *Dec. 2021 - Present*

- Experienced in the development of EmotiChatBot product and its integration with third-party services such as ChatGPT, Google, and Wechat.
- Developed and sustained the SAAS-UniAuth module of the SAAS System using Java language.
- Developed and deployed products utilizing AWS Cloud Services.
- Improved performance by at least 20% by refactoring the model evaluating pipeline using Golang and C.
- Developed several microservices utilizing RESTful API architecture implemented in Golang language.
- Leveraged knowledge in OO Design, Golang, Mysql, Docker, Redis, Aliyun, RabbitMQ, k8s, AWS, Git and Rest API

Taiwan Semiconductor Manufacturing Company   *Taipei, Taiwan*
INFORMATION TECHNOLOGY INTERN   *Jul. 2020 - Sep. 2020*

- Implemented a KPI report system to assist my colleagues to improve their work efficiency by 90%.
- Developed a Robotic Process Automation (RPA) system that sends reminders to the responsible party based on report information.
- Made report templates available for colleagues to use.
- Leveraged knowledge in PowerBI, excel

Shin Kong Commercial Bank   *Taipei, Taiwan*
INFORMATION TECHNOLOGY INTERN   *Apr. 2019 - Jun. 2019*

- Researched Collaborative Filtering for Recommendation System.
- Transfered speech (customer service phone call) to text for analysis in the future.
- Developed a web crawler to retrieve data from websites.
- Leveraged knowledge in Python, web crawler

Projects

Calculator   *Taipei, Taiwan*
HTTPS://GITHUB.COM/DALAOQI/CALCULATOR   *Jan. 2023 - Present*

- A simple system to compute the mean, median, and mode of a sequence of numbers.
- A server and three clients are present. The server will transmit data to each client using a socket, pipe, and shared memory, respectively.
- Able to accommodate multiple simultaneous processes running within Docker and transmit requests through HTTP requests..
- Leveraged knowledge in Golang, IPC, Docker

Faceboo"C"   *Tainan, Taiwan*
NATIONAL CHENG KUNG UNIVERSITY   *Sep. 2020 - Feb. 2021*

- Apache Bench is used for performance testing.
- Simulate the user entering the page, registering, logging in, posting, pressing like, and canceling like by writing scripts.
- Improve the performance of the Faceboo "C" web server by 90%.
- Leveraged knowledge in C

HF-TVGAN   *Tainan, Taiwan*

NATIONAL CHENG KUNG UNIVERSITY   *Jun. 2019 - Jul. 2021*

- Advisor: Wei-Ta Chu
- A method for converting thermal infrared light facial images into visible light facial images.
- Collected and provide NCKU-VTF thermal and visible dataset.
- Leveraged knowledge in Python, generative adversarial networks, adversarial learning

ForgetCatcher   *Keelung, Taiwan*

NATIONAL TAIWAN OCEAN UNIVERSITY   *Aug. 2018 - Feb. 2019*

- Design a bag system, the contents of a bag can be recorded. Bag system can serve as a reminder.
- Leveraged knowledge in Python

Publications

The VTF Dataset and a Multi-Scale Thermal-to-Visible Face Synthesis System   *Bergen, Norway*

HO, TSUNG-HAN; YU, CHEN-YIN; KO, TSAI-YEN; CHU, WEI-TA   *Jan. 2023*

- Proceedings of International Conference on Multimedia Modelling, 2023