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 implementing OAuth2 login for WeChat in EmotiChatBot.
- Integrated the SAAS-UniAuth module with other products, including Emoti-Coach, Bot-Factory, and Emoti-CRM.
- Developed and sustained the SAAS-UniAuth module of the SAAS System using Java language.
- Developed and deployed products utilizing AWS ECS, AWS RDS, AWS S3, and AWS ElasticCache.
- Improved performance by at least 20% by refactoring the model evaluating pipeline using Golang and C.
- Constructed a Text-to-Speech service utilizing ONNX/JIT(Torch Script) models trained from Pytorch/TensorFlow, implemented in both Golang and C.
- Developed a load balancer for the MRCP server with Opensips.
- Built and deployed service infrastructure utilizing Docker, Redis, RabbitMQ and Mysql.
- Developed several microservices utilizing RESTful API architecture implemented in Golang language.
- Leveraged knowledge in OO Design, Golang, Mysql, Serverless Architecture, 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