

Min Hung Shih

Portfolio: miriooops.pages.dev/
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EDUCATION

- Rice University** Houston, TX
 - Master of Computer Science; GPA: 3.34* Aug 2021 - Dec 2022
- National Taiwan University** Taipei, Taiwan
 - Bachelor of Science - Physics; GPA: 3.63* Sep 2015 - June 2020

SKILLS SUMMARY

- Languages:** Python, Go, C++, JavaScript, SQL, MSSQL, Bash
- Frameworks:** Scikit, Pytorch, TensorFlow, Hadoop, Spark, React, Express.js
- Tools/ Libraries:** AWS, Kubernetes, Docker, Terraform, Gitlab CICD, Git, MongoDB, Numpy, Pandas, Asyncio, Redux

EXPERIENCE

- Zillow Group** Seattle, WA
 - Software Developer Intern (Full-time)* May 2022 - Aug 2022
 - Cluster Network Debugging Plugin:**
Designed and implemented a network debugging tool between different services using Kubernetes **Go** client and integrated it into internal plugins for SRE team
 - Gitlab CLI for SRE team:**
Created a **Gitlab** CLI for better visualization of current projects and deployments status
 - Infrastructure Visualizer:**
Assisted Cloud infrastructure team's **AWS** infrastructure visualization project by setting up **GraphQL** endpoint and adopt d3.js for creating interactive graphs
 - Slack to Jira Kubernetes Service:**
Designed and implemented a **fastAPI** service and deployed to **kubernetes** cluster which connects slack with Jira server and solved the firewall issues for the team.
- Brogent Technologies Inc** Taipei, TW
 - Software Developer Intern (Full-time)* Mar 2021 - Jul 2021
 - Codebase Migration:**
Assists in the RD team with migrating from Unity to Unreal Engine in **C++**
 - Simulation with Maya:**
Participated in the process of physics simulation using Maya for VR gaming software

PROJECTS

- Services Connection Troubleshooter CLI (Go, AWS, Kubernetes):**
Designed and implemented an internal tool for Site Reliability Engineering team using Go for troubleshooting connection issues between multiple endpoints accross AWS VPCs.
- Custom Slack - Jira Intergration (Python, FastAPI, Kubernetes, Gitlab, Terraform):**
Created and implemented an in-house fastAPI service running on Kubernetes that connects Slack and Jira and solves the firewall issues for the company.
- React Web Application (JavaScript, React, Redux, MongoDB, ExpressJS):**
Created and designed a website using MERN stack using React/Redux MongoDB, with support for 3rd party(Google) sign on.
- COVID Detection w/ children X-ray Images (Python, Pytorch, Colab):**
Adopted transfer learning along with feature engineering, data augmentation techniques to achieve a training accuracy of 92% and testing accuracy of 91%.
- Latency metrics with socket application (C, C++, Bash):**
Implemented a socket application that is able to measure the latency and the Round Trip Time(RTT) of the network.
- NLP with modified RNN CNN (Python, Tensorflow):**
Built up A RNN/CNN model for text classification problems. Encoded with TF/IDF vectors and add modifications such as time warpping to boost RNN's accuracy to 85%.
- RPG Game (Python, Pygame, Tkinter):**
Created a Python app with three independent RPG games connected through the Tkinter package.
- Bitcoin Price Tracker (Python, Requests, Asyncio):**
Created a personal bitcoin price tracker with RESTful APIs using python Requests module and implemented with Async.

CERTIFICATION

- Japanese Language Certification Exam: N1

VOLUNTEER EXPERIENCE

- English Assistant Teacher for rural area** Taoyuan, TW
 - Volunteered for taking care of kids after school for single parent families and taught English to the group*
- International Companion Program** Taipei, TW
 - Teamed up with students from Melbourne University to teach English for kids in Taiwan's rural area*