Wei-Hsiang (Matt) Wang

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WORK EXPERIENCE

Umbo Computer Vision
Taipei, Taiwan

Backend Engineer
Mar 2019 - Present

- Enhanced filtration logic with score-based time-weighted algorithm. Boosted automation rate for 8% and achieved 98% recall rate.
- Revamped critical component from AWS Lambda into standalone server, which is implemented with FastAPI & Gunicorn and deployed to AWS ECS with Terraform.
- Improved service scalability by reconstructing human-in-the-loop process using AWS API Gateway for WebSocket and AWS Lambda.
- Maintained a MongoDB cluster that stores system metadata from different product lines. Implemented affiliated ETL jobs for monitoring performance of system accuracy and latency.

Software QA Engineer
Oct 2018 - Feb 2019

- Implemented data visualization & configuration tool that is commonly-used by PM, FAE, & engineers.
- Conducted automation & functional testing on computer-vision-based access control system.

Fugu Fish
Taipei, Taiwan

Backend Developer (Contractor)
Oct 2020 - Dec 2020

- Established a Django server using Django REST framework (DRF) & Wagtail CMS for a government agency.

COMMUNITY EXPERIENCE

Web Team Lead, PyCon Taiwan - *repo link: backend / frontend*
Sep 2020 - Present

- Led 12 volunteer developers maintaining the official website and proposal-submitting system.
- Revamped frontend of an existing Django full-stack app using Nuxt.js & DRF.

Developer, Python Official Documents Translation - *repo link*
July 2021 - Present

- Translated Python documents into Traditional Chinese (zh-tw) & review PRs.
- Established workflows with GitHub Action for CI/CD & translation source sync.

Coordinator, Deep Learning Study Group
Feb 2018 - Sep 2018

- Held weekly meetups focusing on paper reading & implementation of computer vision techniques using CNN.

TA, Google AI Boot Camp
July 2018

- Guided participants to build deep learning programs in Tensorflow with Google Colaboratory.

CERTIFICATE

GCP Associate Cloud Engineer - *link*
June 2020

EDUCATION

National Taiwan University
Taipei, Taiwan

B.S. & M.S., Mechanical Engineering (Research Topic: Mechanism Design & Patent Analysis)
Aug 2012 – Aug 2018

TECHNICAL SKILLS

Languages: Python, JavaScript (Node.js)
Backend Frameworks: Express.js, Django, FastAPI, Flask
Cloud Platforms: AWS (EC2, ECS, S3, SQS, Lambda, API Gateway), GCP (GCE, GCS)
Databases: MongoDB, Redis, PostgreSQL
DevOps: Terraform, Serverless, Jenkins, GitHub Action
Monitoring Tools: NewRelic, Grafana, Elasticsearch, Kibana
Others: Git, Nginx, Nuxt.js, TailwindCSS