Yi-Fan(Jeff) Shih

+1-929-2042934 / New York, NY / kontonsine@gmail.com / https://github.com/KShih / https://www.linkedin.com/in/yi-fan-shih/

EXPERIENCE

Advantech Inc, Backend Software Engineer

Jun'20 - Jul'21

- Developed the Go SDK for the customer to assuredly send IoT device data through MQTT to RabbitMQ.
- Asynchronously analyzed data changes (1.2 billion lines per 20 minutes) by using go routine (Go).
- Optimized MongoDB schema and queries: Increasing 10% efficiency of aggregated queries, 8% efficiency of inserted queries, and decreasing 600% of disk usage (200% on index usage) as measured by the QA's benchmarking report.
- Re-architected a web service, e.g.: from HTTP to gRPC, from Monolithic to Microservices.
- Developed backend functionalities interacting with **RESTful APIs**, e.g.: VO, DAO. (**NodeJS**)

New York University, Teaching Assistant in Introduction to Java

Jan'20 - Jun'20

• Assisted professor in class, graded/provided feedback for 70+ students coding homework and held office hours.

EDUCATION

New York University, United States

Sep'14 - May'22

M.S., Computer Science, GPA:3.56 / 4.0

• Algorithm, Advance Database, Cloud Computing and Big Data, Computer Vision

National Chiayi University, Taiwan

Sep'14 - Jun'18

B.S., Computer Science and Information Engineering, GPA:3.87 / 4.0

• Algorithm, Data Structure, Software Engineering, Introduction to Artificial Intelligence

PROJECTS

NYC CityStreets https://github.com/KShih/fall2019-cs-gy-6063-team-five fries

Sep'19 - Dec'19

Course project, Product Owner and Programmer

- A renting app that integrated 3rd party renting services to let users search apts from different sources in one click.
- Optimized external API fetching time by 70% by using Celery and Redis on background fetching.
- Achieved 94% test coverage by unit testing on the internal and external API. (Python, pytest)
- Introduced CI/CD to this **Django web application** hosted on Heroku (PaaS) by using TravisCI + GitHub.

Restaurant Recommendation Chatbot

Aug'19 - Apr'20

Side project, https://github.com/KShih/dining-chatbot

- Built a restaurant recommendation chatbot with serverless microservice architecture on AWS.
- Integrated S3, API Gateway and SQS with Lambda to implement on-demand service.
- Decreased 30% response time by using DynamoDB and ElasticSearch on the big data of Yelp API. (NodeJS)

TECHNICAL SKILLS

Programming Language: Go, Java, Python, JavaScript (NodeJS, React);

Platforms: AWS, K8s, Heroku;

Database: MongoDB, DynamoDB, PostgreSQL, MySQL, SQLite;

Operating Systems: Linux

<u>AWARDS</u>

Jan'15 - Jun'15

C/C++ Algorithms Programming contest.

• The Third Place, 2016 Smart City Hackathon (32 Teams)

Nov'16

Web Application: Provided users with a newly intuitive forum reading experience.

• 2015 ITSA Annual Collegiate Programming Contest (Top 4 out of 64 Teams)