Jeff Shih

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EXPERIENCE

Advantech Inc, Software Engineer Intern

Jun'20 - Jul'21

- 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 report.
- Developed backend service with Microservices architecture, and deploy to Kubernetes. (Docker, Helm charts)
- Designed **RESTful API** which served **10k+** traffic to let customers easily interact with **gRPC** backend.
- Asynchronously analyzed data changes (1.2 billion lines per 20 minutes) by using goroutine (Golang).
- Developed the Golang SDK for the customer to assuredly send IoT device data through MQTT to RabbitMQ.
- Developed backend features using **ORM** frameworks to serve **HTTP** and **gRPC** protocols. (**NodeJS**, **Golang**)

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'19 - May'22

M.S., Computer Science, GPA:3.5 / 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 easily search apts. (**Django**, **HTML5**, **CSS**)
- 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 APIs. (Python, pytest)
- Utilized Agile Development includes Scrum, Sprint, testing, code review and CI/CD.

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, SQS and 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: Golang, Java, Python, JavaScript (NodeJS, React)

Operating Systems: Linux;

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

Others: AWS, Kubernetes, Docker

AWARDS

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

Jan'15 - Jun'15

• Algorithms Programming contest.

The Third Place, 2016 Smart City Hackathon (32 Teams) https://seedcard.duckll.tw/

Nov'16

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