Shuyang Wu

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Education

Georgia Institute of Technology
Atlanta, U.S.
M.S. in Computational Science and Engineering
Aug. 2021 - Exp. May 2023
- **Courses** - Advanced Operating Systems, Computer Network, Algorithms, Database Systems

Shanghai Jiao Tong University
Shanghai, China
B.S. in Environmental Science and Engineering
Sept. 2015 - June 2020
- **GPA** - 3.5/4.3
- **Courses**: Computer Architecture, Operating System, Software Engineering, Data Science

Technical University of Denmark
Copenhagen, Denmark
Exchange Student in Computer Science
Jan. 2018 - Aug. 2018
- **Courses** - Algorithms, Database Systems, Machine Learning

Skills

Programming   Golang, Python, C/C++, Lua/OpenResty, Shell, SQL, HTML/CSS
Software&Toolkits   Docker, Kubernetes, GCP, AWS, Git, Github Actions, MySQL, MongoDB

Working Experience

API7
Remote
Software Engineer Intern
Jan. 2021 - Aug. 2021
- Contributed full-time for **Apache APISIX**, an open-source API Gateway achieving the fastest routing in the industry
- Led team of four to apply **Chaos Engineering** on APISIX on **Kubernetes** and give speech on **ApacheCon Asia 2021**
- Led to develop a website on **Contributor Overtime** on **GCP** with Github API, used by 10+ repos which got 1k+ stars
- Migrated **etcd** - the config center of APISIX - from v2 to v3, and import new features in etcd **Lua/OpenResty** library
- Main maintainer of Apache APISIX on **CI** (Github Actions, Travis CI) and **Docker**
- Mentored on **Google Summer of Code** 2021 to lead students contributing to the community
- Raised as Committer of Apache APISIX

CNCF
Remote
Intern for CNCF Community Bridge
Oct. 2020 - Dec. 2020
- Contributed full-time for **Chaos Mesh**, an open-source Chaos Engineering Platform for Kubernetes
- Built CTL for debugging Chaos Mesh, with **Kubernetes SDK** including **client-go** and **controller-runtime**
- Rewrote several common **shell** command in **Rust** to make debugging tool compatible for slim docker images
- Improved scheduler logic of Chaos Mesh, to achieve reasonable schedule in corner cases
- Raised as Committer of Chaos Mesh

Alibaba
Remote
Intern for Alibaba Summer of Code
July 2020 - Aug. 2020
- Contributed for **Apache RocketMQ**, an open-source messaging platform customized for Online Shopping
- Created a RocketMQ-based **Knative** Eventing Channel, works as the eventing delivery system in Knative
- Migrated part of RocketMQ API to Go Client, from the original Java implementation

Projects

QQ (Instant Messaging Platform) History Backup
Remote
Received 130+ stars on Github and link
Feb. 2020 - now
- Reversed engineering on QQ backup files, to decrypt different format of message from **SQL**
- Provided basic GUI with tkinter for general usage and generate **HTML** for presentation

Automatic Detection Model for Zebrafish Cardiovascular Parameters
Shanghai, China
Undergraduate graduation project for SJTU Environmental Health Group
Feb. 2019 - Dec. 2019
- Implemented end-to-end video segmentation model to detect parameters of zebrafish ventricle
- Model based on Unet, reaching IoU at 91% and videos whose parameter error below 10% conform to 90%
- Proposed two interactive methods to detect artery parameters with OpenCV, 20 times reducing time consumption