Tony Jin

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🎓 Education

Boston University (BU), Boston, United States   2021 – 2023
Master student in Computer Science (CS), concentrate on network, expected May 2023

Shanghai Jiao Tong University (SJTU), Shanghai, China   2014 – 2018
Bachelor of Science in Software Engineering (SE)

⚙ Skills

- Experienced software engineer with a background of SRE & DevOps; MSCS Candidate
- Infra Stacks: Kubernetes, AWS, Terraform, Gitlab-CI, Nginx
- Monitoring Stacks: Prometheus, Grafana, Thanos, Loki, Jaeger
- Programming Languages: Go, Linux shell, TypeScript
- App Stacks: ReactJS, PostgreSQL, Express.JS

👥 Contribution Experience

Google Summer of Code 2022 | Kubernetes Contributor, CNCF | Remote   June 2022 – Sep 2022
A Grafana Dashboard Plugin to Observe K8s Operator Status

- Created a new plugin to scaffold Grafana manifests for operator status visualization.
- Expanded functionalities to support scaffolding on user-defined custom metrics.
- Stacks: Go, Grafana, Prometheus, Kubernetes.
- Details: 📘 Kubebuilder Grafana Plugin · ▶ Show Case · .

👥 Working Experience

Second Spectrum | Software Engineer, Infra Team | Los Angeles, CA   Feb 2019 – Sep 2021
Developed an Incident Management System Company Wide

- Implemented a telemetry system providing precise metrics to efficiently track +200 apps status.
- Setup an alerting system with over 50 rules&alerts to achieve emergency response within 5 minutes.
- Built over 30 monitoring dashboards to simplify app monitoring (Dropped 40% debugging time).
- Stacks: Prometheus AlertManager, Grafana, Jaeger, OpenTelemetry, Loki.

Cost Saving (Save 60% Cost on Cloud Infra)

- Established alerts and dashboards to monitor apps requesting excessive resources.
- Accomplished a scheduler to dynamically rotating AWS Aurora RDS based on DB utilization.
- Dynamically allocate resources for apps with integration of K8s Hpa and AWS Cluster Autoscaler.
- Stacks: AWS Cluster Autoscaler, K8s Horizontal Pod Autoscaling, Prometheus Metrics Exporter.

Boost Up Deployment Efficiency

- Standardized operations on AWS based on IaC tools to safely and efficiently provision infra.
- Improved infrastructure to simplify operations on apps' lifecycle and speed up deployment.
- Designed Dockerfile templates for different code base to improve building efficiency.
- Stacks: Terraform, Vault, Kustomize, Dockerfile, ChatOps.

Morgan Stanley | Software Engineer Intern, Fin Tech | Shanghai, China   Jun 2017 – Sep 2017
Developed a Clearing System for Sydney Futures Exchange(SFE)

- Delivered upstream components in SFE clearing system with high level security.
- Introduced a message queue system to safely and flexibly transform and route data.
- Conduct unit tests of a 90% coverage and integration test to run smoothly on staging.
- Stacks: Apache Camel, ActiveMQ.