

TONY JIN

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🎓 EDUCATION

Boston University (BU), Boston, United States 2021 – 2023

Master of Science in Computer Science (CS), concentrate on network

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; Member of Kubernetes SIGs
- Infra Stacks: Kubernetes, AWS, Azure, Terraform, Nginx, Gitlab-CI
- Monitoring Stacks: Prometheus, Grafana, Thanos, Loki, Jaeger, OpenTelemetry
- Programming Languages: Go, TypeScript, Linux shell
- App Stacks: ReactJS, ExpressJS, PostgreSQL

👥 WORKING EXPERIENCE

Microsoft | Senior Software Engineer(Contractor), Azure for Operator | Boston, MA Jan 2023 –

- Empowered the network infrastructure with high reliability and efficiency by Kubernetes operators.
- Enriched testing automation with virtual resources by Kubevirt to validate Azure products criteria.
- Standardized Azure DevOps pipelines to achieve high quality assurance and boost lifecycle efficiency.

Second Spectrum | Software Engineer, Infra Team | Los Angeles, CA Feb 2018 – Sep 2021

Take charge of multiple infra platforms to drive the entire company

- Explored and standardized AWS workflows with IaC tools to safely and efficiently provision app resources.
- Improved infrastructure to simplify operations on the apps' lifecycle and speeded up deployment process.
- Implemented a telemetry system providing plentiful and precise metrics to efficiently track +200 apps.
- Dynamically allocated resources with the integration of K8s Hpa and AWS Cluster Autoscaler.
- Stacks: Kubernetes, AWS, Terraform, Prometheus, Grafana, Loki

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

👥 CONTRIBUTION EXPERIENCE

The Kubebuilder Community | Reviewer, Contributor, Kubernetes-sigs Mar 2022 –

Maintenance (Reviewer) of the kubebuilder community

- New feature designs and implementation, codebase enhancement, CI/CD improvement, proposals
- Daily contribution includes: bi-weekly meeting, PR reviews, community QA, Documentation
- Propagation: 📖 Kubecon 2023 EU Speaker · 📖 GSoC 2023 Mentor ·

Google Summer of Code 2022 | Kubernetes Contributor, CNCF Jun 2022 – Oct 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.
- Details: 📖 Kubebuilder Grafana Plugin · 🎥 Show Case ·