Zhou Zhiqiang

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EDUCATION

- **Yunnan University** — Kunming, China
  Bachelor - Digital Media Technology — *July 2014 - June 2018*
  Courses: *Data Structures, Networking, Operating System, Database, Multimedia Programming, Software Engineering*

SKILLS SUMMARY

- **Languages**: Go, Kotlin, Java, JavaScript, TypeScript
- **Frameworks**: Kubebuilder, gin, Spring Boot, Spring Cloud, React
- **Tools**: Kubernetes, Docker, Git, MySQL, Bash
- **Soft Skills**: Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **PingCAP** — Remote / HangZhou, China
  R&D — *Oct 2020 - Aug 2022*
  - **Chaos Mesh - Open Source Chaos Engineering Platform**: Chaos Mesh is one of the most popular Cloud-Native Chaos Engineering Platforms.There are hundreds of new installations of Chaos Mesh per day.
    I am one of the Chaos Mesh Maintainers, also one of the most active contributors. I mainly participated in the maintenance and improvement of NetworkChaos, JVMChaos, IOChaos, HTTPChaos, and the basic design of Chaos Mesh, including the solution/architecture design, coding, and review.
    I also led the build of the Chaos Mesh Workflow, for scheduling multiple chaos experiments in serial and parallel, also with the combination with idle suspend tasks and customized tasks.
  - **Public Speaking and Community Meetup**: I gave 6 online/offline talks about Chaos Engineering and Chaos Mesh on Cloud Native Days Tokyo, QECon, etc. I took participants in Chaos Mesh Monthly Community Meetings, bring the technical updates, and answered the question from community adopters.
  - **Disasters Recovery Drill**: I led the Disaster Recovery Drill / GameDay on the TiDB Cloud, and investigated the reliability of TiDB Cloud under the disaster like application instance crash, EC2 crash, network delay/partition, and high-stress load.

- **Koudai Shopping, Weidian** — HangZhou, China
  Senior DevOps Engineer - SRE Team — *May 2020 - Oct 2020*
  - **Polaris - Metrics Monitoring System in Weidian**: I optimized the performance of InfluxDB by an automatic sharding and re-balancing proxy, and redesign the metrics storage architecture. As a result, the timeout time-series queries are reduced by 97%.
    I led the alerting governance, reduced the number of alerting emails and calls by 40%, and made the alerting more reliable and trustworthy.
    I also built the integration between Metrics Monitoring System and Logging / Tracing infrastructure, bringing a universal experience for profiling problems.
  - **Operate Kubernetes Clusters and Application Migrations**: I took participated in the PasS platform migration from the original VM-base architecture to Kubernetes, including the monitoring and alerting integration, in-place application upgrade, and networking solutions.
    I also developed the related features on the internal CD Platform(so-called Zebra), like deploying applications across VM and Kubernetes and scaling existed applications to Kubernetes as the migration solutions.

- **Bangsun Technology** — HangZhou, China
  Software Engineer — *Nov 2017 - May 2020*
  - **Real-Time Financial Risk Control Decision Flow Engine**: This application is a typical "IO Bound Application", I led the changes at the architecture level based on the Actor Model: using Project Reactor to rewrite the core business logic, using Spring WebFlux as the web layer, using NoSQL and MQ to replace the RDBMS for better async throughput. As a result, the daily throughput of the service increased from 100k to 600k.
  - **API Gateway for Real-Time Financial Risk Control Decision Flow Engine**: I built this application acts like an "ingress controller", it watches the service-discovery info on Zookeeper and updates the configuration of Nginx.
  - **Monitoring and Operation Platform**: I led the design and development of this platform, which contains the delivery solution for applications and the monitoring stack, with automatic configuration for them.

LICENSES AND CERTIFICATIONS

- Certified Kubernetes Administrator - Sep, 2021

VOLUNTEER EXPERIENCE

- **Community Organizer at HangZhou Linux User Group** — HangZhou, China
  Organized "Hacking Saturday" bi-weekly or monthly, the offline meetup for Linux users. — *Oct 2021 - Present*

- **Mentor at LFX Mentorship** — Remote
  Participated LFX Mentorship as a mentor 3 times for the project Chaos Mesh. — *Sep 2021 - Present*

- **Maintainer of Yunnan University Open Source Association** — Kunming, China
  Built and maintained the repository mirror site for Linux Distros. — *Sep 2016 - Jun 2018*