Weizhi Chen

https://cvvz.fun

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Professional Summary

- 4+ years of experience in software development involving Analysis, Design, Development, Implementation, Testing of application software.

- Sound knowledge and understanding of Golang concepts like CSP, GO containers, object - oriented programming, functional programming, generic programming, etc. Experience in using Go technologies on Linux.

- Experience with workload/container orchestration using Kubernetes. Extensive experience with Operator pattern.

- Experience with Linux Operating System.

- Knowledge of container runtimes and how they are enabled by the underlying OS components.

- Knowledge of Microservice and distributed system.

- An open source enthusiast focus on Cloud Native area. Open source Contributor for several projects on GitHub. Reviewer of TiDB-Operator project.

Technical Skills

- **Languages**: Golang, Python, C, Shell

- **Technologies**: Kubernetes, Linux, Docker, Git, Database, Network, Microservice, Distributed system

Work Experience

- **Meituan** Beijing
  Senior Software Engineer *Nov. 2019 - Present*
  - Responsible for designing, implementing and maintaining the infrastructure(e.g., container storage, network and service discovery) and orchestration platform(e.g., Kubernetes, Operator and scheduler extender) which enabled distributed database running on Kubernetes.
  - Responsible for designing and implementing TiDB-Operator, some of the work are: support In-Place update for Statefulset(PR: https://github.com/pingcap/tidb-operator/pull/3683), support Gray Release of TiDB-Operator(PR: https://github.com/pingcap/tidb-operator/pull/3554)
  - Designed, Developed and Deployed multi-cluster descheduler for Kubernetes using libraries and tools in Kubebuilder and controller-runtime project. The key features includes: Pod migration across multiple Kubernetes clusters, CronJob for mutiple descheduler task, coscheduling, etc.
  - Responsible for development of Kubernetes Cluster Federation at present. Focus on workloads scheduling and spreading across different clusters. It is now in the phase of survey.
  - Involved in extension of native scheduler, e.g., scheduling according to CPU/IO load metrics.
  - Involved in development of an internal VPA-like service called lar, whose main objective is improving utilization of cluster resources, while minimizing the risk of containers running out of memory or getting CPU starved.

- **Huawei** Chengdu, Sichuan
  Software Engineer *Jul. 2017 - Oct. 2019*
  - Involved in development of Huawei storage array controller, which is traditional monolithic application writing in C language. My main duties includes developing security components(e.g., SSH, authorization, authentication, certificate), message component and libraries for interprocess communication, etc.

Education

- **Huazhong University of Science and Technology**   Wuhan, Hubei
  Master of Computer Science and Technology   *Sep. 2015 – Jun. 2017*

- **Wuhan University of Science and Technology**   Wuhan, Hubei
  Bachelor of Computer Science and Technology   *Sep. 2011 – Jun. 2015*

Miscellaneous

- **Blog**: https://cvvz.github.io

- **Github**: https://github.com/cvvz

- **Languages**: English - Fluent, Chinese - Native speaker