

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.me>
- **Github:** <https://github.com/cvvz>
- **Languages:** English - Fluent, Chinese - Native speaker