

Jie Chen

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Education

Nanjing University

MS in Computer Science
2016.09-2019.06

Hohai University

BS in Computer Science
2012.09-2016.06

Skills

Programming

Over 5000 lines
Go • Python • Java • C++
1000 - 5000 lines
C • Scala • Javascript • HTML

Cloud Computing

Familiar
Kubernetes • Docker • Mesos

Big Data

Familiar
Hadoop • Spark

Operation

Familiar
Ansible • Shell • Linux

Links

Blog:// jetmuffin.com
Github:// jetmuffin
LinkedIn:// Jie Chen

Experience

Alibaba Software Engineer Intern

2018.06 - 2018.08 | Hangzhou

- Develop operator to run PAI tensorflow jobs on Sigma (based on Google Kubeflow).
- Consolidate tensorflow jobs with long running services to improve cluster efficiency.
- Enhance the bootstrapping ability of Sigma (running all components of Sigma on itself).

iQiyi Research Participant

2017.06 - 2018.03 | Remote

- Implemented oversubscription module on Mesos to improve cluster utilization
- Implemented oversubscribed scheduling logic on batch job framework Chronos
- Analyse the interference of resource contention when heterogeneous jobs are consolidated on one cluster
- Implemented a cpuset isolator for Mesos and some simple logic to consolidate heterogeneous jobs

iQiyi Software Engineer Intern

2016.06 - 2016.08 | Beijing

- Worked in Mesos team of cloud compute group
- Participate in the development of private cloud platform QAE (PaaS based on Mesos)
- Implemented some logic to collect metrics and logs of containers on agent

Projects

Datom C++, Mesos

2017.9

- Oversubscription module of Mesos
- Estimate revocable resources by current machine load, historical resource usages and other factors.

Dockertty Python, Docker

2016.8

- Web-based terminal emulator for docker containers
- Communicate with docker daemon and use websocket to connect to TTYs of containers in cluster
- No dependencies inside container

tf-operator Go, Kubernetes, Contributor

2018.07

- Implement clean up policy for tensorflow jobs and kubernetes pods
- Generate OpenAPI swagger from golang types automatically and maintain generated kubeflow client libraries

Awards

2018	top 1% (11/2116)	Alibaba Global Scheduling Algorithm Competition
2017	Scholarship	Scholarship of Institute of Computer Software
2015	3rd Prize	7th Chinese Undergraduate Service Outsourcing Innovation & Entrepreneurship Competition
2015	1st Prize	8th Chinese Undergraduate Computer Design Contest
2015	2nd Prize	1st National College Cloud Computing Application Innovation Competition
2014	Bronze Medal	ACM-ICPC Asia Xi'an Regional Contest
2013-2016	Scholarship	Scholarship of Hohai University

Publications

- [1] J. Chen, C. Cao, Y. Zhang, X. Ma, H. Zhou, and C. Yang. Improving cluster resource efficiency with oversubscription. In 2018 IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC), pages 144–153. IEEE, 2018.