

Zheng CHEN

Software engineer with 5 years experience in back-end development

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Technical Skills

Programming Languages

Python, Golang (proficient); Java (familiar)

Data Technologies

MySQL, Redis, MongoDB, Hadoop, Mapreduce, Cassandra

Message / Task Queue

Kafka, Celery, beanstalkd

Tools

Git, Docker, SQL, AWS, Linux

Experience

Zhihu Inc.

Beijing, China

Software Engineer, Backend team (Infrastructure)

Apr 2018 - July 2019

- **Rewrote and migrated several core Python services with Golang within half a year.** Migrations were done seamlessly without service unavailability.
 - Enhanced performance drastically with response time decreased by 50%
 - Reduced thousands of CPU cores and over 1 million on server expenses per year
 - Awarded Most Valuable Project company-wide 2018
- **Multiple efforts in building Golang components.** Developed and polished over 10 tools and libraries including task queue framework, Redis client, JSONPath parser & dom parser, etc.
- Other responsibilities: re-organized services to reduce excess server & storage usage (in-group expenses were decreased by 30%), promoted performance enhancement of other teams, etc.

Software Engineer, News Feed team

March 2014 - January 2017

- **Designed, developed & maintained TopStory service,** one of the most complex and traffic-intensive systems in Zhihu. As the main engineer, adopted Facebook's EdgeRank algorithm, designed a push-pull combined architecture to distribute real-time personalized content for over 5 million users daily.
- **Optimized recommendation algorithm for TopStory.** Collected over 1 billion lines of logs each day, calculated user's interests by analyzing data with Hive and Apache Pig. Metrics including browsing time and positive interaction rate increased by over 20% respectively after optimization.

DeDao App

Beijing, China

Software Engineer, Infrastructure team

Dec 2017 - Apr 2018

- **Promoted the moving of the company's service architecture to microservice.** Maintained RPC framework, developed an ELK system to collect tracing metrics, and developed an ID generator using Twitter's Snowflake algorithm.
- **Member of the company's technical committee.** Responsible for reviewing on-going technical improvement proposals and offering suggestions.

Dejavu Inc.

Melbourne, Australia

Software Engineer (Freelancer)

Feb 2017 - June 2017

- As one of the 2 back-end engineers, adopted the MVP approach, developed all APIs from scratch using Tornado framework and helped launch the product in 3 months.

Education

Beijing Institute of Technology, Bachelor of **Software Engineering**, 2010 - 2014