

Education

Carnegie Mellon University Silicon Valley (M.S. in Software Engineering) University of Chinese Academy of Science (M.E. in Computer Science) University of Sciece and Technology Beijing (B.E. in Computer Science)

2019 - 2020 2012 - 2015

2002 201

2008 - 2012

Working Experiences ____

ByteDance Beijing, China

SOFTWARE ENGINEER, BACKEND

Sep. 2017 - Aug. 2019

- Developed and operated highly scalable and robust microservices, to optimize the user experience for over **50 million DAU**.
- Designed and implemented systems based on private cloud infrastructures to deliver new features for biweekly iterations of our product.
- Built product metrics, data warehouses, and Lauched A/B Tests to exploit product potentials.

Sohu.comBeijing, China

SOFTWARE ENGINEER, BIG DATA

Aug. 2015 - Sep. 2017

- Built highly reliable workflows for the ML model training and implemented a online prediction system to improve advertisement profits.
- Restructured the ETL(Extract-Transform-Load) process and implemented a web portal to visualize user action data.

VMware Beijing, China

MEMBER OF TECHNICAL STUFF INTERN

Nov. 2012 - May 2013

• Assisted to built migration and deployment tools for a open-source PaaS platform cloud foundry.

Major Projects _

Launched A Cross-Platform Video APP

ByteDance

RELATED TECH: GOLANG, RPC, MySQL, REDIS, NGINX, DOCKER, CI/CD

- Designed and implemented backend microservices to serve the basic scenario of watching videos.
- Develped the content management system from ground up, enriching the video contents that users consume.
- Built the private networking architecture with external content partner, ensuring the security of content.

Optimized Legacy Systems Performance

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RELATED TECH: GOLANG, MYSQL, REDIS, PYTHON, A/B TEST

- Refactored API gateway module by changing **python** into **Golang** implementation, reducing **80%** server resource cost.
- Refactored user interaction module, adding local cache and sharding DB instances by which the throughput increased by **400%**.
- Leveraged unit tests, CI and CD to avoid unexpected defects introduced by refactoring.

Optimized Advertisement CTR model training workflow

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RELATED TECH: AZKABAN, JAVA, HADDOP, SPARK

- Optimized the offline workflow of training advertisement CRT models by parallelizing independent Hadoop batch training steps, reducing about **35% running time.**
- Expedited online streaming workflow with **Spark-Streaming** and made it in compliance with different machine learning algorithms.

Developed a personalized recommendation engine

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RELATED TECH: JVM, SPRING FRAMEWORK, ZOOKEEPER, CI

- Designed the architecture of the system and built the first online version from ground up.
- Set up continuous integration environment, reducing the deploying cost.
- Tuned JVM parameters to optimize the performance. Increased instance throughput by 20%.