

Education

Carnegie Mellon University Silicon Valley

Mountain View, CA

M.S. IN SOFTWARE ENGINEERING

2019 - 2020

Major Course: Machine Learning, Distributed System, Foundation of Software Engineering, Software Requirement and Interaction Design

Working Experiences

ByteDance Beijing, China

SOFTWARE ENGINEER, BACKEND

Sep. 2017 - Aug. 2019

- Kept microservices running smoothly and scaling efficiently to optimize the watching experience for over **50 million DAU**.
- Designed and delivered features for the biweekly iteration of our video APP, "Xigua Video", collaborating with PM and UX
- Leverage product metrics, data warehouses, A/B Test to exploit product potentials.

Sohu.comBeijing, China

SOFTWARE ENGINEER, BIG DATA

Aug. 2015 - Sep. 2017

- Built highly reliable model training workflows 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, THRIFT, NGINX, DOCKER, CI/CD

- Designed and implemented microservices from scratch within 1 month, using Golang and Thrift
- Built the workflow of content auditing system to decrease compliance risks and enrich resources of videos.
- Designed the networking architecture plan including configurations of DNS, Nginx, and CDN for IPTV.

Optimized Legacy Systems Performance

ByteDance

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 follow module, adding local cache and sharding 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

Sohu.com

RELATED TECH: JAVA, SPRING FRAMEWORK

- Set up the code architecture and continuous integration environment with Spring Framework.
- Tuned JVM parameters to optimize the performance. Increased instance throughput by **20%** and reduced response time by **100 ms**.