

# Zengkuan Song

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## Education

Beihang University, Master of Computer Science, 2013-2016

- ***top 10 in the whole nation*** in the National-Entrance Examination for graduate, scores **416**

## Exprience

Tencent, Social NetWork Group(SNG), 2016

- QQ Group, backend developer.
- Optimization of bandwidth strategy on Group-File Project(PV 1000million+), which **saves 10%** average-bandwidth. First I analysis the relationship between file-size, time interval and bandwidth, then select big-size file to limit, finally import Exponential-Curve to quickly-decrease when overloaded bandwidth comes.
- Complete Star-Online living(**QPS 15k+**), Group-Calendar system design and development. In these processes of development, I adopt splitting service to small-services, asynchronous message-queue to decouple and Multi-level Cache to guarantee stable service.
- Code refactoring in Old system such as QQ-Group-File, backend-auto management system .etc

Digital Media Lab in Beihang University, 2013-2016

- Research on Video-Living Transmission, bandwidth-prediction of video transmission

## Skill

- Experience in High Concurrency Server design and development
- Experience using C++/Java and Redis/MySQL for backend development
- Experience in Linux Networking Model and Programming, TCP/IP
- Experience in Cache, Message Queue
- Experience in Stream-media protocol such as RTP/RTCP and Video Coding basic knowledge on H264
- Stable basic algorithms and data structure
- Researching on Redis design and Node.js now