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# YIHUAO YANG

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## TECHNICAL SKILLS

- Distributed system; Distributed storage
  - System design; Object Oriented Design
  - Frequent user of C++11; Project experience of Golang, Python, and Clojure
  - Good at troubleshooting and problem solving
  - Rich experiences with Linux environment and large-scale cluster environment

## EMPLOYMENT

Software Engineer GraphQL Inc. Apr 2016 - Present

Working as the module owner of several infrastructure projects. Key projects:

**Dictionary:** Dictionary server provides reliable access to Zookeeper through GRPC. The client features include Leader Election, Naming, Reliable Notification based on Zookeeper, and Broadcast Session based on GRPC bidirectional streaming.

**RLS** (Replicated Log Service): RLS extends the leader election based on Zookeeper and implements a replicated state machine. Its storage layer stores data through record IO. RLS supports non-blocking online configuration change. Applications interact with RLS library by registering callbacks. Consistency protocol is tested through Jepsen library.

**AdminServer:** AdminServer provides GRPC services to manage the cluster. It provides services like parallel command runner, file transmission to support external management logic. It is deployed on every machine in the cluster. A watchdog script is developed to bring it up every few seconds.

**Daemon**: A Golang project for process management and file transmission.

**Software Engineer**      **Alibaba Cloud Inc.**      **Jan 2014 - Apr 2016**

Worked as a platform developer in *Pangu* Team (contains a half year of internship). *Pangu* is a hyper-scale distributed file system. As a unified distributed storage layer, it provides the cloud storage foundation for Alibaba. Key accomplishments:

- Participated in developing chunked TempFile, which helped to balance disk utility and improved remote read throughput by 200% on large TempFiles.
  - Designed, implemented data chunk redistribution logic in Chunk Server, helped to eliminate performance degradation on directories with numerous of entries.
  - Refactored chunk cleaner in Chunk Server, helped to improve the availability when disk hanging.

# EDUCATION EXPERIENCE

Information Security Northeastern University of China Aug 2010 - Jul 2014

- B.S.E. in Information Security, July 2014.

## ADDITIONAL EXPERIENCE

- First Prize in 2012 ACM-ICPC Northeast China Regional Contest (Jun 2012)
  - Silver Medal in 2012 ACM-ICPC Asia Regional Contest (Jinhua Site, Oct 2012)