Pinglei Guo

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EDUCATION

MS. Computer Science University of California Santa Cruz GPA 4.0 Sep. 2016 – March 2018

BS. Material Science Shanghai Jiao Tong University GPA 3.3 Sep. 2012 – June 2016

WORK EXPERIENCE

PayPal: Software Engineer Intern

San Jose, California June 2017 - Sep. 2017

- Built admin server for internal **container orchestration** platform using **Go**. Deployed in **production** on **Mesos** using **Docker**.
- Enhanced dashboard using Angular 4, used by operation team to troubleshoot Java, Node application and manage cluster itself.
- Introduced full text search using **Solr**, **open sourced** Go client with enhanced performance and support for SolrCloud.
- Furthered continuous integration (CI) and deployment (CD) in QA using Jenkins and Docker.

GitCafe: Software Engineer Intern

Shanghai, China Jan. 2015 – March 2015

- Reduced **Ruby on Rails** application load time by 5% through optimizing regular expression in markdown parser.
- Fixed user subsubcription logic, solved 20% pricing related user tickets.

Dongyue Web Studio: (Part-time) Full stack web developer & Tech lead

Shanghai, China **Sep. 2013 – Jan. 2016**

• Utilized **Redis** as cache and rate limiter, increased QPS by 120%, reduced database load by 40%, filtered out most bot traffic.

PROJECT EXPERIENCE

Distributed Time Series Database

University of California Santa Cruz Nov. 2016 – Present

- Implemented a distributed time series database on top of Cassandra in Go. Support both JSON and Protobuf via HTTP/2.
- Designed a columnar format modeled after Parquet and InfluxDB with higher compression and less write amplification.
- Created benchmark suite for Xephon-K, OpenTSDB, KariosDB, InfluxDB and a consistent client interface for different TSDB.

Distributed systems monitoring prototype

Shanghai Jiao Tong University Mar. 2015 – Jan. 2016

- Enhanced monitoring system for distributed system using Cassandra and MongoDB written in Java and C++.
- Deployed in China Telecom's Kafka cluster, detected anomaly in disk capacity and memory, improved capacity planning.

SKILLS

Language	Go, Java, JavaScript, TypeScript, PHP, Python, SQL, C++, Shell
Database	Cassandra, Solr, MySQL, MongoDB, Redis, Elasticsearch, KairosDB, OpenTSDB, InfluxDB, Prometheus, Graphite
DevOps	Docker, Vagrant, Ansible
Framework	Angular, Larayel, Spring, Dropwizard, Express, Rails, CUDA, Aurora