Pinglei Guo

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EDUCATION

MS. Computer Science University of California Santa Cruz

Sep. 2016 - June 2018

BS. Material Science Shanghai Jiao Tong University

Sep. 2012 - June 2016

Programming Language

Experienced Golang, Java, JavaScript (Node.JS), PHP, HTML, CSS, MATLAB

Intermediate Python, Shell, SQL, C#, Ruby, Scala, TypeScript

SOFTWARE & FRAMEWORKS

Experienced Git, Laravel, Express, AngularJS, jQuery, BootStrap, Vagrant

Intermediate MySQL, Redis, MongoDB, ElasticSearch, Rails, Dropwizard, Spring, ASP.NET, D3.js Basic Docker, Mesos, Kubernetes, Cassandra, Kafka, Ceph, Hadoop, HBase, Hive, Netty

Experience

Systems Research Lab: Research assistant

UC Santa Cruz Oct. 2016 - Present

- Building a hybrid distributed time series and graph database for OLAP as master thesis
- Validating distributed systems' (ie: Ceph) correctness by extending Jepsen

SJTU CIT Lab: Research assistant

Shanghai, China Mar. 2015 - Jan. 2016

- Built a distributed system monitoring and predicting prototype using Cassandra and ElasticSearch
- Found memory bug in China Telecom's production Storm Cluster using the prototype
- Coauthored the paper CPU load Prediction based on a multidimensional spatial voting model

GitCafe: Software Engineer Intern

Shanghai, China Jan. 2016 - Mar. 2016

- Built web application using Rails and AngularJS. Use ElasticSearch and MongoDB as backend storage.
- Optimized markdown parser, added support for todo and increased 10% speed.

Dongyue Web Studio: Full stack web developer & President

Shanghai, China Sep. 2013 – Jan. 2016

- Lead web and mobile development of http://tongqu.me increased daily active user from 500 to 3,000.
- Handle high concurrency by using Redis for cache and rate limit, increase QPS by 120% for hot events
- Added functionality of booking movie tickets and sports venues, integrate with Alipay for online payment
- Built internal continuous integration for test and deploy system around GitLab using container.
- Built RESTful API and rich internet application using Laravel, AngularJS and BootStrap
- Started a weekly newsletter on open source technologies https://github.com/dyweb/weekly

Project

Xephon-B: Time series database benchmark suite: Project Leader

UC Santa Cruz Oct. 2016 - Present

- https://github.com/xephonhq/xephon-b is a benchmark suite for distributed time series databases.
- Using Golang to generate load and using Docker and Mesos to setup test database clusters on AWS.
- Using time series datbase to store benchmark result and visualize using RESTful API and D3.js