

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

SOFTWARE & FRAMEWORKS

Experienced Git, Laravel, Express, AngularJS, jQuery, BootStrap, Vagrant
Intermediate MySQL, Redis, MongoDB, ElasticSearch, Rails, Dropwizard, Spring, ASP.NET
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 – Mar. 2016*

- Lead web and mobile development of <http://tongqu.me> daily active user **increased 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** test and deploy system around **GitLab** and GitLab CI using **container**.
- Built **RESTful API** and rich internet application using Laravel, AngularJS and BootStrap

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**.
- A platform where developers and vendors can share and compare benchmark result vertically and horizontally.