

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
Basic	C, C++

SOFTWARE & FRAMEWORKS

Experienced	Git, Dropwizard, Laravel, Express, AngularJS, jQuery, Bootstrap, Vagrant, Anisble
Intermediate	MySQL, Redis, MongoDB, ElasticSearch, Rails, Spring, ASP.NET, D3.js
Basic	Docker, Mesos, Kubernetes, Cassandra, Kafka, Ceph, Hadoop, HBase, Hive, Netty

EXPERIENCE

University of California Santa Cruz

California *Nov. 2016 – Present*

- Building a **hybrid distributed time series and graph database** for analytics <https://github.com/xephonhq>
- Validating **distributed systems** (ie: Ceph) correctness by extend Jepsen <https://github.com/at15/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 and disk usage problem in China Telecom's staging Storm Cluster using the prototype
- Built interactive dashboard for data visualization and exploration using AngularJS as a single page application.
- 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
- 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

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 database** to store benchmark result and visualize using RESTful API and **D3.js**