# 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