

Pinglei Guo

☎ 831-295-1214 ✉ piguo@ucsc.edu 🏠 at15.github.io 📁 github.com/at15 🔗 linkedin.com/in/at1510086

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

GitCafe: Software Engineer Intern

Shanghai, China *Jan. 2015 – Mar. 2015*

- 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.
- Helped customers (developers) understand Git work flow and explain Git internals.

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*

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**.