

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, C++

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

University of California Santa Cruz *California Oct. 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 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 database** to store benchmark result and visualize using RESTful API and **D3.js**