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, Anisible
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. 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.

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