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*

Distributed systems, Analysis of Algorithm, Design and Implementation of Database Systems

BS. Material Science Shanghai Jiao Tong University *Sep. 2012 – June 2016*

Programming language

Experienced	PHP, Golang, Java, JavaScript (Node.JS), HTML, CSS, MATLAB
Intermediate	Python, Shell, SQL, C#, Ruby, TypeScript, SCSS
Basic	Hack, Scala, 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, Cassandra, Kafka, Hadoop, HBase, Hive, Netty, React

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.

University of California Santa Cruz California *Nov. 2016 – Present*

- Building a **hybrid distributed time series and graph database** for analytics `https://github.com/xephonhq`

SJTU CIT Lab: Research assistant Shanghai, China *Mar. 2015 – Jan. 2016*

- Built a distributed system monitoring and predicting prototype using **Cassandra** and **ElasticSearch**
- 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**.
- Build **high concurrent** PHP+MySQL application using Redis as cache and queue, increase **QPS by 120%**
- Built **RESTful API** and rich internet application using Laravel(with HHVM), 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** to setup test databases.

B+ index for hive: Project Leader Shanghai, China *Nov. 2015 – Jan 2016*

- `https://github.com/at15/cs433/tree/master/tree-index` build B+ index for Hive.
- Use **MapReduce** to generate B+ index and store in **HDFS**. Support caching both point and range query.