Pinglei Guo

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EDUCATION

MS. Computer Science University of California Santa Cruz **GPA 4.0**   *Sep. 2016 – June 2018*

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

BS. Material Science Shanghai Jiao Tong University **GPA 3.3**   *Sep. 2012 – June 2016*

PROGRAMMING LANGUAGE

Experienced	Golang, Java, PHP, JavaScript (Node.JS), HTML, CSS, MATLAB
Intermediate	C++, Python, Shell, SQL, C#, Ruby, TypeScript, SCSS
Basic	C, Scala, Haskell

SOFTWARE & FRAMEWORKS

Experienced	Git, Dropwizard, Laravel, Express, AngularJS, jQuery, BootStrap, Vagrant, Anisible, ANTLR
Intermediate	Docker, MySQL, Redis, Hadoop, MongoDB, ElasticSearch, Rails, Spring, ASP.NET, D3.js, React
Basic	Cassandra, KairosDB, OpenTSDB, InfluxDB, Prometheus, Graphite, Kafka, HBase, Hive, Netty, Spark

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 benchmark suite for time series database `https://github.com/xephonhq/xephon-b`
- Building a **distributed time series database** for **monitoring** `https://github.com/xephonhq/xephon-k`

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** and **Mesos** to setup test database clusters on **AWS**.

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.