

# Pinglei Guo

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## EDUCATION

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**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

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

## SOFTWARE & FRAMEWORKS

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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

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**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 **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

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**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.