

Pinglei Guo

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Education

UCSC(University of California Santa Cruz)

M.S. IN COMPUTER SCIENCE

Santa Cruz, California

Sep. 2016 - Present

SJTU(Shanghai Jiao Tong University)

B.S. IN MATERIALS SCIENCE

Shanghai, China

Sep. 2012 - June 2016

Experience

Systems Research Lab: Research assistant

TECH: CASSANDRA, DOCKER, CONSUL, JEPSEN

- Work on hybrid distributed time series and graph database for analytics as master thesis
- Validate distributed systems correctness by using and extending Jepsen with PhD students

UC Santa Cruz, California

Oct. 2016 - Present

CIT Lab: Research assistant

TECH: JAVA, NETTY, KAIROSDDB, CASSANDRA, ZOOKEEPER, KAFKA, PROTOBUF, SIGAR, DROPWIZARD

- Build a distributed system monitoring and predicting prototype with China Telecom Shanghai
- Coauthored the paper *CPU load Prediction based on a multidimensional spatial voting model*

Shanghai Jiao Tong University

March. 2015 - Nov. 2015

GitCafe: Software Engineer Intern

TECH: GIT, RUBY, RAILS, ELASTICSEARCH, SCSS, JQUERY

- Optimize markdown parser and improve user subscription logic

Shanghai, China

Jan. 2015 - March 2015

Dongyue Web Studio: Full stack web developer & President

WEBSITE: [HTTP://DONGYUEWEB.COM](http://dongyueweb.com) TECH: GIT, PHP, JAVASCRIPT, MYSQL, REDIS, ANGULARJS

- Lead web and mobile development of <http://tongqu.me>
- Build RESTful API and rich internet application using Laravel, AngularJS and Bootstrap

Shanghai Jiao Tong University

Sep. 2013 - Jan. 2016

Project

Tongqu.me (Online event booking & social platform): Project Leader & Tech Lead

WEBSITE: [HTTP://TONGQU.ME](http://tongqu.me) TECH: MYSQL, REDIS, MESSAGE QUEUE, RESTFUL API, SOCKET.IO

- Handle concurrency by using Redis for cache and rate limit, increase QPS by 120% for special event
- Increase daily active user from 5,00 to 3,000. Became the most popular in campus mobile app
- Support booking movie tickets and sports venues, integrate with Alipay for online payment

UC Santa Cruz, California

Oct. 2016 - Present

Xephon-B: Time series database benchmark: Project Leader

REPO: [HTTPS://GITHUB.COM/XEPHONHQ/XEPHON-B](https://github.com/xephonhq/xephon-b) TECH: MESOS, KUBERNETES, DOCKER, GOLANG

- A novel benchmark tool and standard for (distributed) time series databases specifically
- A platform where researchers and vendors can share their benchmark result and compare both vertically and horizontally

UC Santa Cruz, California

Oct. 2016 - Present

Distributed systems monitoring and predicting prototype: Tech Lead

TECH: JAVA, NETTY, KAIROSDDB, CASSANDRA, ZOOKEEPER, KAFKA, PROTOBUF, SIGAR, DROPWIZARD

- Found memory and disk usage problem of a China Telecom Strom cluster
- Store and query infrastructure metrics using KairosDB (a time series database based on Cassandra). Using Netty for internal protocol.

Shanghai Jiao Tong University

March 2015 - Nov. 2015

Scala linter: Project Leader

REPO: [HTTPS://GITHUB.COM/AT15/SCALA-LINTER](https://github.com/at15/scala-linter) TECH: SCALA, COMPILER, FUNCTIONAL PROGRAMMING

- A compiler plugin that checks dead code and style problems. Generate autofix and html report
- Contribute to Scala official documentation

Shanghai Jiao Tong University

March 2015 - June 2015

Skills

Experienced	Git, Golang, PHP, JavaScript (Node.JS), HTML, CSS, MATLAB, AngularJS, Express, Laravel
Intermediate	Java, Ruby, Python, SQL, MySQL, Redis, Rails
Basic	Scala, C, Shell, Docker, Hadoop, HBase, Hive