Pinglei **Guo**

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Education

UCSC(University of California Santa Cruz)   *Santa Cruz, California*
M.S. in Computer Science   *Sep. 2016 - Present*

SJTU(Shanghai Jiao Tong University)   *Shanghai, China*
B.S. in Materials Science   *Sep. 2012 - June 2016*

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

Experience

Systems Research Lab: Research assistant   *UC Santa Cruz, California*
Tech: Cassandra, Docker, Consul, Jepsen   *Oct. 2016 - Present*

- 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

CIT Lab: Research assistant   *Shanghai Jiao Tong University*
Tech: Java, Netty, KairosDB, Cassandra, ZooKeeper, Kafka, Protobuf, Sigar, Dropwizard   *March. 2015 - Nov. 2015*

- 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*

GitCafe: Software Engineer Intern   *Shanghai, China*
Tech: Git, Ruby, Rails, ElasticSearch, SCSS, jQuery   *Jan. 2015 - March 2015*

- Optimize markdown parser and improve user subscription logic

Dongyue Web Studio: Full stack web developer & President   *Shanghai Jiao Tong University*
Website: http://dongyueweb.com Tech: Git, PHP, JavaScript, MySQL, Redis, AngualrJS   *Sep. 2013 - Jan. 2016*

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

Project

Tongqu.me (Online event booking & social platform): Project Leader & Tech Lead   *Shanghai Jiao Tong University*
Website: http://tongqu.me Tech: MySQL, Redis, Message Queue, RESTful API, Socket.IO   *Sep. 2013 - March 2015*

- 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 poplular in campus mobile app
- Support booking movie tickets and sports venues, integrate with Alipay for online payment

Xephon-B: Time series database benchmark: Project Leader   *UC Santa Cruz, California*
Repo: https://github.com/xephonhq/xephon-b Tech: Mesos, Kubernetes, Docker, Golang   *Oct. 2016 - Present*

- 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

Distributed systems monitoring and predicting prototype: Tech Lead   *Shanghai Jiao Tong University*
Tech: Java, Netty, KairosDB, Cassandra, ZooKeeper, Kafka, Protobuf, Sigar, Dropwizard   *March 2015 - Nov. 2015*

- 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.

Scala linter: Project Leader   *Shanghai Jiao Tong University*
Repo: https://github.com/at15/scala-linter Tech: Scala, Compiler, Functional Programming   *March 2015 - June 2015*

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