

Pinglei Guo

WORK EXPERIENCE

January 2015 – March 2015

Software Engineer, GitCafe, Shanghai, China

Optimize ruby markdown parser. Fix encoding problem in rugged. Improve user subscription logic.

September 2013 – January 2015

Full stack web developer, Dongyue Web Studio, Shanghai, China

Build RESTful API and microservice using modern PHP, NodeJS frameworks like Laravel, Express. Develop responsive user interface using Bootstrap and AngularJS. Build internal tools for continuous integration, monitoring and alert. Build user recommendation system based on PredictionIO.

RESEARCH EXPERIENCE

March 2015 – November 2015

Research Assistant, Shanghai Jiao Tong University, China

Build a distributed system monitoring and prediction prototype. Metrics visualizing dashboard using AngularJS and WebSocket, support real time update and custom plugin. Implement a plain text protocol for data transport and collector control using Netty. Store data in time series database (KairosDB). Coauthored the paper *CPU load Prediction based on a multidimensional spatial voting model*.

July 2015 – September 2015

Research Assistant, Victoria University, Australia

Estimate Australian Football League Sports men's commercial value. Build a web crawler embedded into ASP.NET web application to get performance. Using text mining to get evaluation from social media and press. Combine athlete's performance with evaluation to generate rank and estimated value.

PROJECT EXPERIENCE

March 2015 – November 2015, SJTU & China Telecom

Distributed system monitor and prediction Member

Store and query infrastructure metrics in KairosDB (a time series database based on Cassandra). Implement internal transport and control protocol using Netty. Interactive dashboard using AngularJS and vis.js with streaming chart support. Command line interface using python and REST API using Dropwizard. Predict and alert ahead.

November 2015 – January 2016

B+ index for Hive Project leader

Build and store B+ index for Hive. Support point and range query with built in cache using memory or Redis. Dashboard and API using AngularJS and Spring framework.

October 2015 – December 2015

Search Engine based on Hadoop Project leader

Build multithread crawler to abstract data from forums. Use Map-Reduce to generate inverted index and store in HDFS. Provide REST API using Spring framework.

March 2015 – June 2015

Scala linter Project leader

Build Scala compiler plugin to check dead code. Contributed to Scala official documentation.

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EDUCATION

2016 – PRESENT **MS. Computer Science**
University of California Santa Cruz

2012 – 2016 **BS. Material Science**
Shanghai Jiao Tong University, China

2013 – 2016 **BA. Animation**
Shanghai Jiao Tong University, China

PUBLICATION

CPU load prediction based on a multidimensional spatial voting model Yu Chen, Jian Cao and **Pinglei Guo**, 2015 *IEEE International Conference on Data Science and Data Intensive Systems*. IEEE, 2015

OPEN SOURCE PROJECT

AYI A cross platform util application written in Golang

ABOUT Blog and static site generator for individual and team in Node.js

LINTER Scala dead code detection compiler plugin

DYGROUP A slack alternative, IM and collaboration platform for team

PROGRAMMING LANGUAGE

EXPERIENCED JavaScript, PHP, HTML, CSS, MATLAB

INTERMEDIATE Golang, Java, Ruby, Python, SQL

BASIC LEVEL C, Scala, shell

SOFTWARE & FRAMEWORKS

EXPERIENCED Git, AngularJS, jQuery, D3.js, Bootstrap, Laravel, Express

INTERMEDIATE MySQL, Redis, Rails, Cinema4D, Photoshop

BASIC LEVEL Docker, Nginx, Hadoop, HBase, Hive