

YUESONG WANG

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EDUCATION

University of California, Santa Barbara - Santa Barbara, USA M.S. Computer Science
Courses: Cloud Computing, Scalable Internet Service, Runtime System, Database System, Distributed System Present
GPA: 3.92/4.0

Tongji University - Shanghai, China B.E. Software Engineering
GPA: 4.53/5.0 Completed: June 2015
Honors: Second-prize Scholarship in 2012, 2013, 2014
Courses: OOP, JavaEE Development, Data Structure, Databases, Operating System, Computer Network, Design Patterns

Kettering University - Flint, USA China Scholarship Council Excellent Undergraduate Exchange Program
GPA: 3.95/4.0 Completed: March 2014

SKILLS

- **Specialty:** Java & Web Development, Cloud Computing and Distributed System
- **Programming Languages, Frameworks and Tools:** Java(SpringMVC, Jersey), Ruby on Rails, Javascript(JQuery, AngularJS), Mysql, Linux, Android, Git, Jenkins&TeamCity, AWS, Google App Engine(GAE), RabbitMQ, Puppet

EXPERIENCE

Appfolio, Inc - Santa Barbara, USA (**Software Development Intern**) July 2016 - Sep 2016

- Worked in Infrastructure Team to detect and solve daily CI issues, improve cost-performance and stability.
- Developed Rollbar reporting gem and flakey-resilient runner integrated to framework to reduce and report flaky test.
- Used Puppet to make a customised CentOS image for using AWS Spot Instance on CI and created a web-based analysis tool for comparing the cost-savings.
- Designed a new Spot Instance CI agent provisioning workflow and documented on internal wiki.

SAP Labs China ,SME Infrastructure Line - Shanghai, China (**Software Development Intern**) Sep 2014 - April 2015

- Developed and maintained an Eclipse plugin to create company specific prototype project using Java.
- Participated in infrastructure project in SME named Cloud System Management based on Docker

Duties: 1. Wrote bash and Python script for whole project CI booting, self-update. Containerised necessary services.
2. Developed functions about machine management, client deployment etc. using SpringMVC and OData.

PROJECTS

- **BIY-PrototypeCI:** Continuous-Integration as a Service with Github integration. (**AngularJS, JAX-RS, GAE**)
 - Constructed RESTful back-end with Jersey and interactive front-end with AngularJS, hosted on GAE and AWS.
 - Integrated Github OAuth2 for user authentication and Github API for web hook trigger and repository fetching.
 - Handled requirement for scalability and availability requirements by setting up duplicated-master Jenkins Cluster across several IaaS platform(AWS,Eucalyptus,Google Compute Engine).
 - Used TaskQueue, Cloud Storage and Datastore for backend communication, log storing and fetching logic.
- **Raft:** Distributed State-Machine Consensus Algorithm-Raft implementation . (**Ruby, AWS**)
 - Structured the asynchronous process communication logic using RabbitMQ RPC and complex multithreading.
 - Clearly designed the algorithm using Pseudo-code for leader election, log replication, failure recovery scenario from paper's description then implemented using Ruby. Verified it by unit test accordingly..
- **Trader:** Smart stock buying strategy recommender based on historical Google Trend and Quandl Stock info. (**Rails**)
 - Implemented the critical profit calculation and comparison algorithm based on referenced paper.
 - Developed front-end visualisation charts and listings using Chart.js,JQuery and Bootstrap.
 - Load-test our services using Tsung on AWS. Enhanced performance bottleneck by using server&client side caching.
- **Graduation Project Management System for SSE:** I designed a single-page application aimed at facilitating mutual selection between students and teachers during final graduation project phase.(**SpringMVC,JPA**)
 - Designed the database with 14 interrelated tables. Structured Three-Tier project framework for maintainability.
 - Implemented pivotal functions including time-based access right check and Teacher-Student matching algorithm based on multiple affecting factors.
 - Maintained by young alumni being used within school for graduation phase usage.