

Ruiyang Wang

Looking for Full-time job for May 2019

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EDUCATION

- **Carnegie Mellon University** Mountain View, CA
Master of Science in Software Engineering; GPA: 3.78 Anticipated May 2019
- **Shanghai Jiao Tong University** Shanghai, China
Bachelor of Science in Computer Science; GPA: 3.4 June 2017

PROGRAMMING SKILLS

- **Languages:** C, C++, Python, C#, Java, JavaScript, Objective-C, Swift, \LaTeX
- **Skills:** Cloud Computing, High performance C++ applications, Full Stack Web Development, iOS, Machine Learning
- **Open Source Contributions:**
 - **aws/chalice:** Add "reserved concurrency" configuration for each AWS Lambda function.
 - **aws/aws-xray-sdk-python:** Add PyMongo support to the AWS XRay Python SDK.
 - **xplord/MongoDBClusterOnDocker:** A Dockerized MongoDB Cluster with sharding and replications.

EXPERIENCE

- **Clarity.io, Software Team, SDE Intern** May 2018 - Aug 2018
 - **Automated workflow to deploy, validate and monitor product code**
 - **Automated Documentation Deployment:** Designed automated workflow that generates, uploads and publishes document on certain git events via CI. Ensured synchronization between documents and code.
 - **AWS X-Ray Integration:** Integrated AWS X-Ray that traces requests and performances of microservices in Node.JS and Python on AWS Lambda and ElasticBeanstalk with vendored diagnostic data.
 - **Kubernetes-based Microservice Orchestration:** Orchestrates MongoDB, Kafka, Redis and microservices for fast, dockerized testing and deploying. Speedup integration testing **2x**.
- **YITUTech, Infrastructure Team, SDE Intern** Sep 2017 - Dec 2017
 - **Distributed Storage Middleware for Machine Learning:** Designed and Implemented High-performance, Distributed Key-Value database to accelerate Machine Learning workflow **3x**.
 - **C++, Medical Imaging Data Service:** Designed and Implemented medicine imaging database service conforming to DICOM standard, with **5x** speed and reliable high availability
- **Microsoft, Azure China Marketplace Team, SDE Intern** June 2016 - Sep 2016
 - **User friendly Marketplace website to purchase and deploy images to Azure China**
 - **Azure Cloud Computing:** Developed Azure China Marketplace that deploys images on the Azure Cloud
 - **Full Stack Web Development:** Used C#, ASP.NET and jQuery to build extensible & flexible web applications in Agile and Test-Driven development.
 - **Webhook-driven Automated Documentation System:** Event-driven service that transforms Markdown Documentations into nicely crafted HTML pages.

PROJECTS

- **Twitter Big Data Analysis:**
 - **Scalable web service:** Constructed Terabyte-level Tweet big data analytics web service on Cloud.
 - **Cloud Computing:** Utilized AWS EC2, elastic load balancing and auto scaling for system performance.
 - **Big data analysis:** Used MapReduce jobs with HBase and HDFS on AWS and GCP to cleanse and analyze Twitter data.
- **C++14 Compile-time Stack machine:** Evaluating Turing-complete stack machine opcodes at C++ compile time.
- **C++ STL-compliant XOR-Linked List:** A memory efficient container that supports move semantics, `std::allocator` and `<algorithm>`.