Ruiyang Wang

Looking for Full-time job for May 2019   rywang014@gmail.com

1075 Space Park Way SPC 118, Mountain View, CA 94043   (669) 215-9946

EDUCATION

- **Carnegie Mellon University** — Mountain View, CA
  Master of Science in Software Engineering; GPA: 3.78 — 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, Java, C#, JavaScript, Objective-C, Swift
- **Skills**: Cloud Computing, High performance C++ applications, Full Stack Web Development, iOS, Machine Learning
- **Open Source Contributions**:
  - **uutils/coreutils**: Fix inconsistency with GNU/coreutils on numeric sorting with `NaN`.
  - **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.
  - **xplorld/MongoDBClusterOnDocker**: A Dockerized MongoDB Cluster with sharding and replications.

EXPERIENCE

- **Clarity Movement Co., Software Team, SDE Intern**
  Automated workflow to deploy, validate and monitor production code — May 2018 - Aug 2018
  - **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**.

- **YITU Tech, Infrastructure Team, SDE Intern**
  Acceleration for Machine Learning Training and Inference — Sep 2017 - Dec 2017
  - **Distributed Storage for Machine Learning**: Accelerated Machine Learning workflow **3x** by designing and implementing high-performance key-value database as Dataset service.
  - **C++, Medical Imaging Data Service**: Designed and Implemented medicine imaging storage with **5x** speed, reliable high availability and conforming to industrial standards.

- **Microsoft, Azure China Marketplace Team, SDE Intern**
  User friendly Marketplace website to purchase and deploy images to Azure China — June 2016 - Sep 2016
  - **Azure Cloud Computing**: Developed **Azure China Marketplace** that deploys images on the Azure Cloud
  - **Full Stack Web Development**: Used **C#**, **ASP.NET**, **JavaScript** 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 in Java**: Constructed Terabybte-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>`.