Yixin Chi

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Summary

- Senior software engineer with 5 years experiences in large scale, high volume transaction payment systems development with Java. Experienced the evolution of architecture from SOA to distributed architecture,best practices of continuous availability and high performance.
- Hands-on 1 year experiences in Python with scientific computation and machine learning, familiar with NumPy, Numba, VisPy, PyTorch and scikit-learn. Has basic knowledge of Neural Networks.
- Hands-on building a hybrid app, familiar with JavaScript and AngularJS.

Education

The George Washington University September 2015 - May 2017
Master of Science in Computer Science DC, USA

Harbin Engineering University September 2006 - July 2010
Bachelor of Management in E-Commerce Harbin, China

Experience

Harris Lab (APIG)/Janelia., Internship Jan 2017 - May 2017
SpikeSorting App - Python, NumPy, VisPy, Numba, scikit-learn
- Designed and implemented a event-driven, rich interaction, low latency and high extensible SpikeSorting App by Python. Compared to traditional SpikeSorting App, it gives users chances to interact with big data in different feature space simultaneously and smoothly. It is also easily integrate with Jupyter and take advantage of it.
- Learned machine learning algorithm to make sorting more accuracy and faster. The next step is try to apply metric learning to improve the performance by taking advantage of rich interaction.

Project Dream Miles, Inc., Internship June 2016 - Aug 2016
Hybrid App - AngularJS,MongoDB
- Designed and implemented the hybrid app by ionic platform, including integrate with facebook login and Stripe.com. Because it is a startup, and it base on this app, so almost participated in all processes.

Alipay.com (Alibaba Group), Senior Software Engineer June 2013 - May 2015
3rd Architecture Project - Java,Oracle,MySQL
- Designed and implemented the new payment platform of Alipay.com,which processing 80 million transactions per day.
- Designed and built the clearing center of Alipay.com, which is responsible for reconciliation with the banks and enterprises.

Performance and Failover Project - Java,Oracle
- Used database sharding and cache, optimized transaction and business, to meet the payment with 1.5w/second.
- Designed and created a failover solution with DBA, making system has fault-tolerant,which particularly important to a huge payment company. It already used more than three times.

Alipay.com (Alibaba Group), Software Engineer July 2010 - May 2013
Accounting Center Project - Java,Oracle
- Designed and implemented the accounting center.When completed, it became the best system of annual in company because of its scalability and test coverage.

Payment Database sharding Project - Java,Oracle
- Implemented the first database sharding project in Alipay.com, splitting in 3 databases and 100 tables. This is first attempt to put the core financial system's database on the PC server.