

Bo Yang

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Education

Carnegie Mellon University **Dec. 2013**

- M.S., VLIS, Computer Science, GPA: 3.73/4.0
- Selected Courses: Distributed System, Storage System, Parallel Programming, Data Mining, Machine Learning

Fudan University, Shanghai, China **Jul. 2012**

- B.S. for Computer Science, GPA: 3.63/4.0

National University of Singapore **Dec. 2010**

- Exchange for Computer Science, GPA: 3.82/4.0
- Selected Courses: Stochastic Process, Network

Skills

C/C++, Java, Go, SQL, NoSQL, DynamoDB, Accumulo, Hadoop, Pig, Matlab, ISPC, CUDA, OpenMP, MPI, git

Experience

SDE Intern, Workforce Management, Amazon **May. 2013 to Aug. 2013**

- Developed a realtime SMS work schedule notification system for Amazon hourly employees.

SDE Intern, Risk Detection, Paypal **Dec. 2010 to Apr. 2011**

- Implemented cache for a metric audit system.

Projects

Airline Booking System

- Multiple replication groups for different regions. *2PC* for distributed transactions among different replication groups. *Paxos* within single replication group. *Consistent hashing* and *distributed consistent caching* in backend *key-value storage*.

Cloud File System

- Use *S3* as secondary storage to increase capacity for local file system. Use deduplication to decrease capacity usage on cloud. Implement *segmented LRU* cache to reduce requests to cloud.

Parallel Programming

- Elastic Web Server with balanced work distribution.
- Speedup Wandering Salesperson with OpenMP and MPI.
- Backpropagation with CUDA

Graph mining on large data set

- PageRank, Diameter, Eigenvalue with Hadoop, Pig and Pegasus.

OpenCloud Log Parser

- User usage metric auditing with Hadoop and Accumulo.