

YANJIA LI

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EDUCATION

CORNELL UNIVERSITY, Ithaca, NY

Aug 2014 - Dec. 2015

Master in Information Science, Department of Computing and Information Science (GPA 3.5/4.0)

Coursework: *Machine Learning, Artificial Intelligence, Operating System, Large-scale Info System, Cloud Computing, Financial Engineering with Stochastic Calculus, Managerial Finance, Derivatives Securities*

CHONGQING UNIVERSITY, Chongqing, China

Sept. 2010 - Jun. 2014

Bachelor of Engineering in Communication Engineering, Department of Engineering (GPA 3.6/4.0)

Coursework: *Computer Network, Information Security, Computer Organization, Embedded System*

Award: *National Scholarship (Top 1%), First Prize in National Undergraduate Electronic Design Contest (Top 1%)*

WORK EXPERIENCES

Amazon.com, *Software Development Engineer Intern*, Seattle, WA

May. 2015 – Aug. 2015

- ✓ Restructured the inbound transportation system for Amazon sellers for better scalability. Also migrated new APIs for it.
- ✓ Designed the scalable structure and implemented the system with Spring. Finished unit and integration testing. Deployed the project to product environment. Now it is used by millions of Amazon sellers.

Cornell Employment and Disability Institute, *Web Developer*, Ithaca, NY

Oct. 2014 - May. 2015

- ✓ Developed the manager toolkits and questionnaire feature for multiple websites. Created both front-end and backend.

TECHNICAL SKILLS

Programming Language:	• Java/Spring	• Python/Django	• C/C++/Cocos2d-x	• Objective-C/Swift
Web Development:	• HTML5/CSS3	• JavaScript/Node.js	• PHP	• Ruby/Ruby on rails
Data and Computing:	• Hadoop/MapReduce	• MS SQL Server	• MySQL	• NoSQL/MongoDB

SELECTED PROJECTS

Distributed Data Analysis Applications based on Hadoop (Java)

May. 2014

- ✓ A fast convergence page rank application and a dataset clustering application based on machine learning algorithms.
- ✓ Processed more than 800,000 lines of data with MapReduce. Deployed the system on Amazon's EMR.

"Savorlink" A food sharing website (Node.js/MongoDB/Semantic-UI)

Mar. 2014

- ✓ An Airbnb-like website for food sharing, which helps people to share their home cooking to their friends.
- ✓ Led a team of four people. Duties cover both responsive UI design and a fully functional transaction backend system.

Distributed Fault-tolerant Session Management System (Java)

Mar. 2015

- ✓ Designed session state in-memory database and cookie. Implemented the RPC Routines between machines through UDP for Gossip protocol. Deployed the 1-resilient system on AWS successfully.

Multithreading Mail Server with File System (Python)

Nov. 2014

- ✓ A synchronized multithreading mail server using SMTP protocol and a file system with Unix File System structure.
- ✓ Implemented a threading pool for clients. Using semaphore and conditional variables to ensure synchronized communication between server and more than 32 clients. The system keeps stable under more than 1k queries/min.

"Unbeatable" A Web Tetris Game with Artificial Intelligence (HTML5/CSS3/JavaScript)

Nov. 2014

- ✓ An artificial intelligence agent for Tetris game, which can clear more than 40k lines and compete with best human player.
- ✓ Created a greedy algorithm with 6 heuristics. Optimized by Particle Swarm algorithm from data of 3k times gameplay.