

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 every day.

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. 2015

- ✓ 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. 2015

- ✓ 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.