# 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

*Coursework: Cloud Computing, Large-scale Info System, Operating System, Database System, Artificial Intelligence*

**CHONGQING UNIVERSITY**, Chongqing, China  Sept. 2010 - Jun. 2014

Bachelor of Engineering in Communication Engineering, Department of Engineering

*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 - Present

✓ Designing, developing and testing the new fulfillment system for Amazon seller service with Java. The new system will outstands concurrency performance and scalability.

**Cornell Employment and Disability Institute**, *Web Developer*, Ithaca, NY  Oct. 2014 - May. 2015

✓ Developed the web toolkits for managerial use. Implemented both front-end and backend of the website.

✓ Implemented the questionnaire present function for a self-assessment website. *http://www.benchmarkability.org/*

## TECHNICAL SKILLS

| **Programming Language:** | • Java/J2EE | • 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/EMR)  May. 2014

✓ A fast convergence page rank application and a dataset clustering application based on machine learning algorithm.

✓ Processed more than 800,000 lines of data with MapReduce. Deployed the system on Amazon's EMR.

**Distributed Fault-tolerant Session Management System** (JAVA/Networking)  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

**Media Enabled Research Interface and Database** (Node.js/MongoDB/EC2)  Jan. 2015.

✓ A cloud based video service website that also provides an interface for researchers to make surveys.

✓ Build the responsive front-end, video service and comment system for this website. Act as leader in a group of eight.

**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 AI** (HTML5/CSS3/JavaScript)  Nov. 2014

*http://liyanjia92.github.io/TetrisAI/*

✓ 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.