

# Xuanyi Li

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## EDUCATION

### The Ohio State University

Columbus, United States

Master of Science in Computer Science; GPA (3.96/4.0)

08/2017 – 05/2019

### Zhejiang University

Hangzhou, China

Bachelor of Engineering; GPA (3.97/4.0); Ranking (4/144)

09/2013 – 07/2017

## TECHNICAL SKILLS

**Programming Language:** Java, Python, SQL, C, Assembly

**Tool:** Git, Keras, Postman, LaTeX

**Back End:** Spring Boot, Mybatis, Redis, RocketMQ, Node.js

**Front End:** HTML, CSS, JavaScript

**Microservices:** Remote Procedure Call, Config Manage System, Cache, Message Broker

## WORK EXPERIENCE

### Mlab: Business Intelligence Platform

Alibaba

Backend Engineer Intern

05/10/2018 – 07/25/2018

- Built an intelligence platform to accelerate machine learning product development with **Spring Boot** and Alibaba distributed middle wares, reducing 1 week for the coupon team to build AI applications.
- Created the complex offline training module with senior techniques such as **Java** annotation, reflection and design pattern (used Builder, Abstract Factory and Template Method).
  - Utilized Apache **HttpClient**, state automaton and optimistic lock to monitor training state.
  - Generated dynamic algorithm parameter forms to Front end engineers with Google **Gson**.
- Developed server and client programs with **Diamond** (distributed config manage system) and **Tair** (distributed cache) to deploy online model and automate A/B test for real-time computation.

### Deep Learning Internship

Singapore University of Technology and Design

Research Assistant in NLP Lab (published a paper in DSAA)

07/03/2016 – 08/31/2016

- Ameliorated classical multi-task deep learning model with **Keras** to detect the sentiment polarity, reviewer identification, subjectivity/objectivity of each text simultaneously.
- Crawled 75,000 rotten tomato reviews with **Python**. Inserted CNN to capture exclusive features and appended gated control unit to filter noise, improving accuracy by 0.47% and 1.10% respectively.

## PROJECTS

### Mini Seckill System

02/2018 – 03/2018

- Developed back-end of the seckill system with **Spring Boot** to avoid overselling and redundant purchase during the seckill activity, where intensive users purchase merchants in seconds.
- Implemented the CRUD interface at DAO tier with **Mybatis**.
- Integrated **log4j** and Spring **AOP** to intercept each http request at SpringMVC controller tier.
- Utilized **Redis** and **RocketMQ** to ensure transaction consistency involving order generation and inventory subtraction meanwhile to promote the concurrency to 1000 QPS, tested via JMeter.

### iNature: Photo Sharing Web Application

09/2017 – 10/2017

- Built back-end with **Node.js** and front-end with **JavaScript** and Bootstrap to show, add, delete and edit photos coupled with comments. Deployed on **Heroku Cloud**.
- Integrated Google Map API & geocode.js to show filming location.
- Implemented the functionality of responsive photo search with **AJAX**.

### Selected Infrastructure Projects

01/2018 – 05/2018

- Multi-thread Programming:** Used Lamport Clock and Java **ReentrantLock** to simulate a restaurant. Regarded diners and cooks as threads, and tables, machines and various food as shared resources.
- Lisp Interpreter:** Implemented internal function of Lisp by **Java** to value arguments, bind them to corresponding formal parameters and recursively evaluate function body.
- Parallel Computing:** Applied tiling strategy, loop unrolling over 2 dimensions and shared memory in GPU for transposed matrix multiplication acceleration, achieving 26.6 GFLOPS.

## PUBLICATION

Xuanyi Li, Weimin Wu, Hongye Su. Convolutional Neural Networks Based Multi-Task Deep Learning for Movie Review Classification. In proceedings of the 4th IEEE DSAA. Tokyo, Japan, 10/2017