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
Distributed System: Remote Procedure Call, Coordination Service, Cache, Message Queue

WORK EXPERIENCE

Mlab: Unified Intelligence Platform   **Alibaba**
Back-end Engineer Intern   05/10/2018 – 07/25/2018

- Built an internal platform to accelerate AI with **Spring Boot** and Alibaba distributed middlewares. Empowered the coupon team to reduce 1 week for tweaking recommendation algorithm.
- Hooked up sophisticated offline training platform to other streams by exploiting **Java** annotation, reflection and design patterns (Builder, Abstract Factory and Template Method).
  - Utilized Apache **HttpClient**, state machine and optimistic lock to monitor training state.
  - Generated dynamic front-end forms of algorithm parameters with Google **Gson**.
- Delivered trained models to corresponding client services with **Diamond** (durable config manage system) and **Tair** (distributed cache).

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 80k 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 cookers 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.