Xuanyi Li

 $\diamond 614\text{-}397\text{-}8198 \ \, \diamond \text{ wirybeaver@outlook.com} \ \, \diamond \text{ linkedin.com/in/xuanyi-li-osu} \ \, \diamond \text{ shanelxy.top/portfolio}$

EDUCATION

The Ohio State University

Columbus, United States

Master of Science in Computer Science; GPA (3.97/4.0)

08/2017 - 05/2019

Zhejiang University

Hangzhou, China

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

09/2013 - 07/2017

TECHNICAL SKILLS

Programming Language: Java, C, Python, SQL, X86 Assembly

Framework and Tool: Spring Boot, Mybatis, Redis, RocketMQ, Git, Keras, Postman, LATEX 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, Factory and Template Method).
 - Utilized Apache HttpClient, state machine and optimistic lock to monitor training state.
 - o 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**. Set aside CNNs to capture exclusive features and appended gated control unit to filter noise, improving accuracy by 0.47% and 1.10% respectively.

PROJECTS

Multiplayer Tictactoe with Stream, Multicast and Failover

01/2019 - 04/2019

- Developed the multithreading server in **C** to monitor game resources and handle various types of requests from multiple clients (New Game, Reoconnect, Move, End) in the TCP thread, process multicasting requests for failover in the UDP thread; Used **select()** to deal with multitasking.
- Built the client to multicast for a new server or connect with the backup server while noting that the original server crashes, seamlessly resume the game from last move.

Mini Seckill System

02/2018 - 03/2018

- Developed back-end of the seckill system with **Spring Boot** to implement the transactional task consisting of order generation and inventory subtraction, achieving 6K QPS.
- Implemented the CRUD interface at DAO tier with **Mybatis** and tested with JUnit.
- Integrated log4j and Spring AOP to intercept each http request at the controller tier.
- Used **Redis** to reject overselling requests. Combined **RocketMQ** with local message table to implement the distributed transaction in terms of the choreography-based saga pattern.

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.