Xuanyi Li

◇ 614-397-8198 ◇ wirybeaver@outlook.com ◇ linkedin.com/in/wirybeaver ◇ 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 in Automation; GPA (3.97/4.0); Ranking (4/144)	09/2013 – 07/2017

TECHNICAL SKILLS

Programming Language: Java, C, GO, Shell, Python, SQL, X86 Assembly **Tool**: Postman, IntelliJ, LaTeX
Framework: Spring Boot, Apache Druid, gRPC, Apache Kafka, Redis, Keras, Mybatis
Operation: JUnit, Mockito, Git, Gradle, Jenkins, Docker, Terraform, AWS

WORK EXPERIENCE

Software Engineer	**Quantcast, Seattle**
Audience Platform	07/15/2019 – Present

Ingested advertising streaming data from **Kafka** into the real-time analytics database **Druid**.

- Migrated the Druid AWS infrastructure as code with **Terraform**, involving EC2, EMR, RDS, Route53 and S3. Wrote flexible shell script for Druid setup per Druid work space and node type.
- Implemented customized Druid parser with **Jackson** and exploited Druid's Kafka indexing service and to convert source data. Used **Jenkins** for triggering unit test, package build and delivery onto Druid.
- Keep improving of **gRPC** API to serve variant queries for real-time and batch data. Utilized Jenkins to create docker image and deployed it on Quantcast **PAWS**.

Back-end Engineer Intern	**Alibaba, China**
Taobao Transactoin Platform	05/10/2018 – 07/27/2018

Built an internal **Spring Boot** application to automate AI development.

- Hooked up offline training platform to other data processing modules.
  - Generated dynamic front-end forms of training parameters for variant algorithms with Google **Gson**.
  - Used **HttpClient** to poll training status, optimistic lock to check consistency of training process.
- Delivered trained models to designated client servers with **Diamond** (persisted config management system) and **Tair** (distributed cache).

Visiting Student	**SUTD, Singapore**
Natural Language Processing Group, published a paper in IEEE DSAA	07/13/2016 – 08/31/2016

Ameliorated multi-task deep learning model with **Keras** for text classification.

- 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, Reconnect, 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.

Selected Side Projects   01/2018 – 06/2019

- **Lisp Interpreter:** Implemented Lisp interpreter in **Java** to parse the expression into binary tree, evaluate arguments, bind them to associated formal parameters and recursively evaluate function body.
- **Sprint Clone:** Wrote an Sprint clone from scratch in **Java** and implemented the feature of IoC (Inverse of Control) and AOP (Aspect Oriented Programming).
- **Raft:** Implemented the basic raft protocol in **Go**, including leader election and log replication.
- **Seckill Shopping:** Used **Redis** to reject overselling requests. Combined **RocketMQ** with local message table to implement the distributed transaction per the choreography-based saga pattern.

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.