Linbin YANG

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EDUCATION

University of California, San Diego, *La Jolla, CA*

Master in Computer Science *Sep. 2018 – Jun. 2020*

1st price in WeBank National Fintechathon Contest

University of Electronic Science and Technology of China, *Sichuan, China*

Bachelor in Computer Software Engineering *Sep. 2014 – Jul. 2018*

National Scholarship of PRC (1/113)

Outstanding Undergraduate Student in Sichuan province (50/5500)

WORK EXPERIENCE

Alibaba, *Hangzhou, China*

Senior Software Engineer *Jun. 2020 – Present.*

- **Data Consistency Platform**
  - Utilized **Flink** and **Kafka** to build message-driven architecture that reduced the time from data anomaly detection to correction from hours to less than 1 minute.
  - Adopted muti-tenant design to isolate business logic in separate applications, while keeping the platform focused on data orchestration.
  - Designed a distributed rate limiting tool based on **Redis** and token bucket algorithm, which can adapt to different consistency repair scenarios and ensure smooth and stable data scheduling.
  - The data platform has supported 23 data consistency scenarios, covering core businesses such as labels, promotions and plays, of which quasi-real-time repair methods cover 9/23 scenarios, accounting for 40%.
- **E-commerce Pipeline for Coupons**
  - Streamlined the coupon merchant and delivery process, solved the issues of user experience and data complexity, and enhanced the simplicity and availability of coupon merchant process.
  - Designed and developed a multi-session merchant pipeline for consumer coupons, which reduced the operation cost and enabled multiple live sessions in one single activity.
  - Multi-session merchant pipeline reduced the shop coupon activity creation volume by 92%, saving 82 workdays for operation.
- **Freight Insurance Merchant Process**
  - Offlined the old product and migrated all to the new service rule platform.
  - Built universal service rule business framework that supports not only freight insurance but also free-shipping, purchase limit and other business scenarios.

Clustar.ai, *Shenzhen, China*

Software Engineer Internship *Sep. 2019 – Jun. 2020*

- Developed and implemented a backend computing library for federated AI framework using **C/C++** and **CUDA**.
- Conducted research on efficient computation of big numbers on GPU and filed a **patent** for the proposed method.

Derivatives China, *Shenzhen, China*

Software Engineer Internship *Jun. 2019 – Sep. 2019*

- Used Python scripts to parse graph structure of TensorFlow Model from CKPT into JSON file.
- Adopted Multi-way tree and Topology algorithm to store and restore the compute graph.
- Developed efficient program using **Eigen** to achieve model inference process based on the extracted compute graph.

ADDITIONAL

Interests: ToB Business Architecture Design, Data Warehouse, Artifical Intelligence, Heterogeneous Computing

Languages: Java(proficient), C/C++, Python, Shell

Framework: Spring, Flink, MaxCompute, Kafka, Redis, HSF, CUDA, Eigen, TensorFlow