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 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*

Data consistency maintenance and e-coupon merchant system management *Jun. 2020 – Present.*

- Won 2021 Class-A Award in Alibaba TaoTech Group.
- Designed SAGA framework **Fisher** by using System Log, Flink and MaxCompute to limit the time of finding and correcting one data consistency problem to less than 1 minute which greatly reduced labor input cost of dealing with data consistency by 80% after implementing **Fisher** in global shopping festival of Alibaba.
- Removed the old version of e-coupon product while ensured the online stability of system. Connected e-coupon merchant system with promotional and advertising system to make the whole marketing process more smooth to use and increased the conversion rate of e-coupon by 40%.

Clustar.ai, *Shenzhen, China*

Software engineer internship program *Sep. 2019 – Jun. 2020*

- Responsible for using C/C++ and CUDA to write backend computing library for federated AI framework. Conducted research on how to efficiently compute 1024-bit big number on GPU and summarized all work as one patent which was released on 2022/04.
- Developed distributed safe training tool for Machine Learning using C/C++, Python, grpc. Combined ECDH AES128 algorithm and Intel SGX technology to secure remote communication and local computing of machines.

Derivatives China, *Shenzhen, China*

Software engineer internship program *Jun. 2019 – Sep. 2019*

- Used Python scripts to parse graph structure of TensorFlow Model from CKPT into JSON structure 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.

PROJECT

Branch Predictor Using Perceptron

Guide: CSE240a,University of California,San Diego,CA *Mar. 2019 – Jun. 2019*

- Developed branch prediction algorithm using traditional GShare and Tournament models in C.
- Optimized Tournament model with Perceptron algorithm to do branch prediction task.

Text Tag Prediction

Guide: IFLYTEK,Hefei,China *Apr. 2018 – Jun. 2018*

- Trained TextRNN model on 300 million text data with 1999 labels to predict 5 possible tags for each text.
- Replaced the softmax classifier with multi-binary classifier to make the model converge faster during training.
- Optimized the model evaluation method by combining F-score with position weighting.

SKILLS

Tools: Git, Docker, Linux/Unix, VSCode

Languages: Java, C/C++, Python, CUDA, SQL, JavaScript, HTML, CSS, Linux Shell, Haskell

Framework: Spring, Flink, MaxCompute, FATE, TensorFlow, OpenMP, LLVM, Eigen, Intel SGX, React.js.