HONGZHEN LIANG

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EDUCATION

The Ohio State University

September 2020 - December 2022

Bachelor of Science in Computer Science and Information

GPA: 3.767/4.0

NanJing Normal University

September 2019 - July 2020

Bachelor of Science in Computer Science

South China Normal University

September 2018 - July 2019

Bachelor of Engineering in Computer Engineering

RESEARCH EXPERIENCE

Flashnet: Reducing Tail Latency of Modern Storage System March 2022 - present Undergraduate Research Assistant, Supervisor: Prof. Haryadi S. Gunawi of University of Chicago.

- · Integrated and refactored the codebase and architecture of LinnOS and IONet to build an automated test pipeline for research
- · Introduced LSTM, Random Forest and CRF models into the FlashNet architecture and reduced the FNR (False Negative Rate) by more than 20%
- · Identified the imbalance learning problem and utilized the under sampling technique, which successfully accelerated the training speed to another magnitude
- · Justified the continual learning technique's effectiveness and conducted multiple data visualizations to intuitively illustrate the research results

Extended Research of ZebraConf

September 2021 - March 2022

 $\label{thm:conditional} \textit{Undergraduate Research Assistant}, \textit{Supervisor: Prof. Yang wang \& Prof. Michael D. Bond of The Ohio State University}$

- · Developed an innovative safe and efficient method to test reconfiguration of running heterogeneous Hadoop clusters with diverse parameter and classify error types in the node communications
- · Manually troubleshoot high-risk parameters of online heterogeneous Hadoop systems and resolve synchronization issues by modifying the source codes

Movement Correction Training System Based on Myoelectric April 2019 - April 2020 National Innovation and Entrepreneurship Project

- · Collected electrical signals from human muscle surfaces with the wearable units
- · Developed training functions based on the analysis and prediction of body movement states
- · Designed and implemented an novel approach combined with Computer Vision technique and Myoelectric sensor, which significantly improved the overall motion prediction accuracy

WORK EXPERIENCE

Baidu Inc

Data Analyst Intern, YY Division

February - July 2021 Guangzhou, China

· Conducted in-depth market research for organizing market campaigns, brandings and online promotions; planned and managed joint-marketing with Baidu partners (Oppo, Vivo)

- · Analyzed sales data to identify the preferred sales forms and developed a set of corresponding recommendations for the Marketing team
- · Proactively assisted managers to coordinate different departments and help with administration duties
- Responsible for providing data-driven analysis and support to help YY division split from Joyy Inc merge into Baidu Inc

Joyy Inc
Data Analyst Intern

September 2020 - February 2021 Guangzhou, China

- · Maintained giant volumes of client data and utilized quantitative research methods to capture purchasing trends for iterating sales and marketing strategies
- · Managed event operations covering planning and implementing operation schedules, ensuring on-time delivery for live media and VIP
- · Collaborated with strategy analysts to address their requests and problems regarding the Live event, increasing satisfaction and efficiency of the streamer and audiences

VIP.COM
Data Analyst Intern

June - August 2020 Guangzhou, China

- · Cooperated with vendors to promote products and enhance their online store operations
- Deeply engaged in the data-driven sales support with Vans to boost their success on VIP.COM's platform

HONORS & AWARDS

Dean's List 2020 - 2022 Second prize of China Computer Design Competition (Guangdong) June 2020 Dean's Undergraduate Scholar September 2019 Execellent Award of China Collegiate Programming Contest (Guangdong) May 2019

TECHNICAL STRENGTHS

Language: Native Chinese speaker(both Mandarin and Cantonese), Fluent in English.

Programming Language: C, C++, Python(NumPy, Pandas, SciPy), Java, JavaScript

Database: MySQL, SQL Server, SQLite

Framework: TensorFlow, Keras, Scikit-learn, Hadoop, Spark, Spring, Flask