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

September 2018 - July 2019

South China Normal University

Bachelor of Engineering in Computer Engineering

RESEARCH EXPERIENCE

Flashnet: Reducing Tail Latency of Modern Storage System

 $March\ 2022$ - present

 $Undergraduate\ Research\ Assistant$

University of Chicago

Supervisor: Prof. Haryadi S. Gunawi

- \cdot 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

Online ZebraConf

September 2021 - March 2022 The Ohio State University

 $Undergraduate\ Research\ Assistant$

Supervisor: Prof. Yang wang & Prof. Michael D. Bond

- · Developed an innovative safe and efficient method to test reconfiguration of running heterogeneous Hadoop clusters with over **500 parameters** and classify error types in the node communications
- · Manually troubleshoot 4 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 South China Normal University

- · 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

The Ohio State University

September 2022 - December 2022 Columbus, Ohio

Teaching assistant, CSE 3901: Web Applications

· Responsible for setting grading rubrics and assisting students with their work

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 from Baidu Tieba(45 million users) 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 directly to COO and support to help YY division split from Jovy Inc merge into Baidu Inc

Joyy Inc

Data Analyst Intern

September 2020 - February 2021 Guangzhou, China

- · Maintained over **24 million** clients' 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

May 2019

- · Cooperated with over 20 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
- · Develop personalized advertising push marketing strategies by analyzing the user profiles of over **69** million users

TECHNICAL STRENGTHS

Language: Native Chinese speaker (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

HONORS & AWARDS

Dean's List

Second prize of China Computer Design Competition (Guangdong)

Dean's Undergraduate Scholar

2020 - 2022

June 2020

September 2019

Execellent Award of China Collegiate Programming Contest(Guangdong)