QIANLI MA

Mobile: (+86) 178 5580 1919 Email: fazzie@zju.edu.cn Personal Blog: fazzie-key.cool

EDUCATION BACKGROUND

Zhejiang University Bachelor of Electronic Science and Technology **Hangzhou, China**

Shannon elite class of Information Science and Electronic Engineer College *Sep 2018- Present*

- Overall GPA: 3.79/4
- Core Courses: C Programming, Data Structures and Algorithms, Digital System Design, Information theory, Machine Learning and Computer version, Artificial Intelligence, Computer Organization, Network of Computer, Edge Calculation, Embedded system design, Matrix Theory and Optimize.

Minor in Intensive training Program of Zhu Kezhen Academy *Nov 2019- Present*

Core Modules: Management, Economy, Business strategy, Business model.

University of Illinois at Urbana-Champaign **Urbana and Champaign, Illinois, United States**

Summer School *Jul 2020*

- Core Courses: Wireless and Mobile IoT, Wireless Communications: 5G/WIFI 6

INTERNSHIP EXPERIENCE

Algorithm Engineering Internship in Huawei 2012 Distributed Parallel Lab July *2021- Present*

- Contributed code to MindSpore, a full-scene deep learning developing framework; Developed three new features for Mindspore Lite.
- Implemented and iterated the Log system of Mindspore on x86 platform based on Glog.
- Accomplished the GPU support for OpenCL of Mindspore, developed GPU operators of Mindspore core.
- Completeed Mindspore Lite OpenGL texture passing core code.

RESEARCH PROJECTS & COMPETITION

Data-Driven Beam Tracking based on Deep Learning April *2020- Present*

Supervised by Prov. Min Li, Institute of Intelligent Communication Network and Security, ZJU

- Proposed a novel deep learning algorithm to solve the beam tracking in the mmWave communication system.
- Deducted the mathematical function and built the mmWave communication models, generated the beam-index dataset through model inference.
- Proposed an efficient beam tracking algorithm based on transformer, achieved 91% predicting accuracy, 16 percent higher than existing algorithms.

Intel Embedding System Competition

National Second Prize (9/100), Supervised by Prof. Yong Wang

- Developed a device equipped with a mirror and a monitor, which can detect user posture for fitness.
- Abstracted the feature of posture with Openpose, build a VGG based model to do posture classification. Deployed on hardware platform AI-Box with Intel Openvino tool.
- Developed web front-end for the mirror, enabled features including voice assistant and entrance posture recognition.
- Lead the team to plan and execute the whole competition, won National Second Prize.

Edge Prediction on Customer Action

Supervised by Prof. Jiangtao Huangpu

- Built a time series LSTM based model to predict the moving action of people flow in stores with the real scene data.
- Built a advertisement recommendation system according to user profiling and consumer behavior, conducted user clustering with K-means.
- Deployed the entire model on the Whale Hub edge device.

Challenge Cup Competition of National - National Gold Award

- Designed and developed the business plan of hardware and computer vision algorithms.
- Participated in the implementation of the target detection algorithm as the main contributor.

EXTRACURRICULAR ACTIVITIES

Co-founder of "We too" Music technology enterprise

- Conducted an innovation program for one year time.
- Applied AI algorithm to serve the music events.
- Involved in the research of AI music generation algorithm.

Deputy Head of Pioneering and Participating work Instructing Center

- Lead the 35th Entrepreneurship Forum of Zhejiang University.
- General Leader of the 10th Elite Team Challenge.

Drummer of Six o'clock studio band in Zhejiang University Electroacoustic Orchestra

Member of the machine learning department, String Program club

HONORS & AWARDS

- Second Prize of Intel Cup Embedded System Invitational Competition 2020.11
- Gold Prize of Challenge Cup Competition of National 2020.11
- 2019-2020 First-prize Scholarship of Zhejiang university 2020.10
- 2019-2020 Outstanding Students 2020.10
- 2018-2019 Third-prize Scholarship of Zhejiang university 2019.10
- 2018-2019 Outstanding Students 2019.10

SKILLS and Other

- Language: C/C++, Java, Python, Matlab, Verilog, Dart, HTML/CSS/JavaScript
- Framework & Tools: Pytorch, TensorFlow, MindSpore, Opencv, Flask, Vue, OpenCL, Latex, FL studio