Pingwei Sun

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Education

The Hong Kong University of Science and Technology

Hong Kong, China

Master of Science in Big Data Technology

Sep 2023 - Jul 2024

· I am now an incoming student.

Northeastern University

Liaoning, China

Bachelor of Engineering in Artificial Intelligence

Sep 2019 - Jul 2023

- · GPA: 90.23/100
- Courses: Probability Theory and Statistics, Discrete Mathematics, Optimization Theory, Data Structure, Algorithm Design, Computer System, Machine Learning, Pattern Recognition, Deep Learning, Natural Language Processing
- Extracurricular Activities: Leader of the official visual studio of the Northeastern University

Skills____

Programming Python, C/C++, Verilog, Vivado, Linux, Git

Soft Skills Time Management, Teamwork, Documentation

Language IELTS 7.0 (Aug 2022)

Experience _____

Tensor Lab, OPPO Research Institute

Beijing, China

Algorithm Engineer (Intern)

Mar 2023 - Jul 2023

- **High-performance deployment:** Improve Bert-liked pretrained models' inference performance on smartphones. Investigate the landscape of LLM's deployment on smart devices. The project of LLM on smartphones has been approved for establishment.
- Efficient matrix multiply kernel: Optimize the matrix multiply kernel for the self-developed framework.

School of CSE, Northeastern University

Liaoning, China

Teaching Assistant

Sep 2022 - Jan 2023

- · Virtual Environment: Build the docker image needed for the experiment and make it accessible through the web page.
- **Guidebook:** Design experiment content and scoring criteria (**refer to repo**).
- **Q&A:** Provide lecture and instruction to students in class.

Projects_

High-performance CPU design and AI application based on MIPS

Liaoning, China

School of CSE, NEU

June 2022 - Sept 2022

• A dual-issue six-stage pipeline CPU based on MIPS was built, and it cooperates with a CNN acceleration core to process the MINIST data. All designs are coded in **Verilog** and implemented on **FPGA** board. It is also my graduation thesis, which received excellent reviews from professors.

BERT based Sentiment Classification

Liaoning, China

NEU NLP-Lab

June 2021 - Sept 2021

Based on the BERT model, this project enhances the performance of the model on extremely unbalanced data sets through a variety of fine-tuning methods and a contrastive learning task.

Fundus Image Analysis based on Deep Learning Methods

Liaoning, China

NEU MIIC-Lab

June 2021 - Sept 2021

• This project includes several sub-modules of the diabetic retinopathy diagnosis system, including macular positioning, vascular segmentation, and grading. Models like YOLO, U-Net, and Efficientnet are applied to analyze fundus images and assist in the diagnosis of DR.

Honors (selected)

2020	National Scholarship, Northeastern University	Liaoning, China
2020	First-class Scholarship, Northeastern University	Liaoning, China
2021	Outstanding Student Journalist, Northeastern University	Liaoning, China
2022	Third Prize in "Loongson Cup", National Student Computer System Capability Challenge	Beijing, China