Pingwei Sun

Shenyang, China, 110167

【 (+86)18641202035 | ■ sunpingwei23@gmail.com | 🏠 polarispw.github.io/ | 🖸 github.com/polarispw

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 Jan 2023 - Jun 2023

School of CSE, NEU

• 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

Jun 2022 - Aug 2022

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

May 2022 - Jul 2022

• 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

References available upon request.