


Bin-Lun Li

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EDUCATION

National Tsing Hua University (NTHU)

Sep 2021 - Jun 2025

B.S. in Computer Science

Advisor: Professor **Jerry Chou**

Average **GPA 4.27/4.3** on last 2 semesters.

EXPERIENCE

Machine Learning Engineer Intern - Lasertec Taiwan

Dec 2024 - Present

Pytorch/Triton/CUDA/Linux

- Optimized morphological operations using **parallel programming**, improving computational efficiency.
- Developed **production-grade GPU software** tailored for industrial applications.

Teaching Assistant of Operating Systems

Sep 2024 - Dec 2024

C/C++/Operating System/Linux

- Authored detailed **specifications for Operating System** implementations.
- Configured server environments to support student coursework.

Teaching Assistant of Hardware Design and Lab

Sep 2024 - Dec 2024

Verilog/Hardware Design

- Drafted comprehensive specifications for complex **hardware design projects**.
- Diagnosed and resolved hardware-software integration issues, strengthening debugging expertise.

AWARDS

Second Prize - 2024 Meichu Hackathon

[Link to Project](#)

Python/Flask/Backend/LLM

- Achieved 2nd place out of **230 participants**, **first prize in Logitech group**.
- **Multi-agents chatroom**, where each agent embodies a distinct personality, enabling dynamic interactions and valuable insights through conversations.

PROJECTS

Scalable Serving System for LLM with Kubernetes and NVIDIA MIG

Go/Kubernetes/Prometheus/Grafana/NVIDIA MIG/System Design

- Leveraged **NVIDIA MIG** to allocate GPU resources, mitigating **resource fragmentation and contention**.
- Implemented **dynamic resource allocation** strategies based on LLM inference workload analysis.
- **Real-time monitoring** with Grafana dashboards to visualize and resource consumption.

SKILLS

Programming Languages

C/C++, Python, Java, Javascript, Verilog, Go

Tools & Libraries

Git, Unix-like shells, Docker, Kubernetes, CUDA, MPI, OpenMP

Languages

TOEIC Listening and Reading Test 915/990