

# Bin-Lun Li

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## EDUCATION

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**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

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**Machine Learning Engineer Intern - Lasertec Taiwan**

Dec 2024 - Present

Pytorch/Triton/CUDA/Linux

- Accelerated morphological operation via **parallel programming**.
- Built **industrial-oriented software** on GPU cluster.

**Teaching Assistant of Operating Systems**

Sep 2024 - Dec 2024

C/C++/Operating System/Linux

- Designed the **specifications for Operating System's** implementation.
- Set up the server environment for class students.

**Teaching Assistant of Hardware Design and Lab**

Sep 2024 - Dec 2024

Verilog/Hardware Design

- Developed the **specifications for hardware design problem**.
- Resolved issues caused by both hardware and software, thereby enhancing my debugging skills.

## AWARDS

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**Second Prize - 2024 Meichu Hackathon**

[Link to Project](#)

Python/Flask/Backend/LLM

- Won **2nd prize among 230 people, first prize in Logitech group**.
- **Multi-agents chatroom**, each with a distinct personality. You can gain insights from the interactions between your AI agents and engage with them.

## PROJECTS

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**Scalable Serving System for LLM with Kubernetes and NVIDIA MIG**

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

- Utilized **NVIDIA MIG** to allocate GPU resources, effectively addressed **resource fragmentation** and **resource contention** issues.
- **Dynamically adjusted resource allocation** based on runtime resource usage of LLM inference server, leveraging NVIDIA MIG to ensure optimal resource utilization.
- **Monitored resource usage** in real-time and visualized data through Grafana dashboards.

## SKILLS

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**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