# 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

- Achieved up to **300x speedup** in morphological operations using **parallel programming**.
- 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.

**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.

**President of Student Association of Dept. of CS, NTHU** — Sep 2022 - Aug 2023
Leadership/Communication

- **Led a team of 10 people**, collaborated with faculty, industry professionals, and student groups.

## AWARDS

**Second Prize - 2024 Meichu Hackathon** — Link to Project
Python/Flask/Backend/LLM

- Achieved 2nd place out of **230 contestants**, **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, resolved **resource contention issue**.
- Implemented **dynamic resource allocation** strategies based on LLM inference workload analysis.
- **Real-time monitoring** with Grafana dashboards to visualize resource consumption.

## 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 |