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Stony Brook, NY

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Portfolio: MathtoData.com

# Bing Han

## EDUCATION

**PhD candidate in Computer Science**, *Stony Brook University*

09.2022 — 05.2027(Anticipated)

**Bachelor of Electrical Engineering**, *National Taiwan University*

09.2015 — 01.2020

## SKILLS

**Languages**

Python, C++, JavaScript

**Frameworks and tools**

**Machine Learning** Pytorch, Keras, Nsight | **Cluster** Kubernetes | **Web** Node.js, React, Nginx, Flask | **Database** SQL, MongoDB | **Tools** Docker, Linux, AWS Lambda/EC2, Git

## PROFESSIONAL EXPERIENCE

**Research Assistant**

**Jul 2023 — Present**

*Stony Brook University*

*Stony Brook, NY*

- **Project: GPU performance analysis and prediction on DL serving**
- Improved GPU utilization by predicting and minimizing job interference under colocation. Reduced 36% completion time.
- Predicted optimal job colocation using fine-grained GPU kernel profiles from **NVIDIA Nsight Compute**. Analyzed over 20 GPU metrics to colocate workloads based on compute, memory, and cache usage.
- Discovered a simple regression model trained with kernel metrics achieves 90% prediction accuracy with 30% data used as training set.
- Leveraged **NVIDIA MPS** for efficient job sharing with compute isolation. Achieved 1.5x increase in throughput.

*ML task scheduling*

- Lorem ipsum dolor sit amet, consectetur adipiscing elit.

**ROLE / PROJECT B**

**MMM YYYY — MMM YYYY**

*company B*

*somewhere, state*

- Aenean semper felis et viverra eleifend.
- Integer aliquam odio id tellus sollicitudin, ut pellentesque elit blandit.
- Vestibulum iaculis quam ac nibh tincidunt rutrum.

**ROLE / PROJECT C**

**MMM YYYY — MMM YYYY**

*company C*

*somewhere, state*

- Donec volutpat turpis et placerat pharetra.
- Sed sit amet sem facilisis, scelerisque lectus aliquam, accumsan purus.
- Aliquam at urna congue dolor luctus sodales.
- Quisque vitae tortor at elit tincidunt molestie sed ac quam.

**ROLE / PROJECT D**

**MMM YYYY — MMM YYYY**

*company D*

*somewhere, state*

- Vestibulum accumsan massa quis dignissim faucibus.
- Maecenas suscipit mi ut ullamcorper pharetra.
- In vitae ligula tristique, iaculis tortor in, egestas magna.
- In fringilla purus malesuada lectus imperdiet pulvinar.
- Nulla eu dolor congue, mollis dui a, eleifend purus.

## SELECTED PROJECTS

Graduate Student Council Representative

**YYYY — YYYY**

Academic Student Association: Some Workshop, Creator/Facilitator

Fall YYYY

City Symposium Series, University of Motherland, Poster Presenter

Fall YYYY

College of Science and Engineering Student Project Showcase, Research Presenter

Spring YYYY

Graduate Research and Creative Works Showcase, State University, Research Presenter

Spring YYYY

Some Coding Sprint, University of Some Other State

Spring YYYY

**ROLE / PROJECT A**

**MMM YYYY — Present**

*company A*

*somewhere, state*

- Lorem ipsum dolor sit amet, consectetur adipiscing elit.
- Suspendisse pretium elit quis ullamcorper ultricies.
- Morbi a nisl sit amet massa ultricies fermentum.
- Sed a diam et turpis tempor venenatis eget eget ipsum.
- Vestibulum fermentum justo vitae aliquet accumsan.