

YOSSAPEE MANASPIYA

Engineering Undergraduate at Tsinghua University

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INTRODUCTION

Scholarship freshman, from Thailand to Tsinghua University, interested in Computer Science and Theoretical Physics, i.e., data analysis and quantum computing. Driven to make discoveries and invent new breakthroughs.

EDUCATION & INTERNSHIP

Tsinghua University

Beijing, China

Sep 2026 - Jun 2030

- Accepted to the Global Talents in Science and Engineering program
- Achieved 20,000元 International Undergraduate Freshman Scholarship

Mahidol University International Demonstration School

Nakhon Pathom, Thailand

Aug 2023 - May 2026

- Graduated first-class honors and the outstanding student in Mathematics, Class of 2026
- Scored 5/5 in AP Calculus BC, Physics C: Mechanics, Computer Science A, Physics 1, etc.

Imperial College London (Summer School)

London, United Kingdom

Jun 2025 - Jul 2025

- Attended summer school focused on data science and artificial intelligence
- Investigated and wrote a literature review on *Advancing Multimodal Medical Capabilities of Gemini* (3rd Place)

DIServe Co., Ltd (Internship)

Bangkok, Thailand

Dec 2024 - Jan 2025

- Developed a business mock-up with an automated Google Apps Script API
- Self-learned database integrations like booking and availability systems

ACADEMIC EXPERIENCES

National Science and Technology Development Agency:

Government of Thailand, 2025

Team Lead & Machine Learning Models Developer

Developed “Sapanjai”, a messaging platform powered by two AI sensitivity filters. Fine-tuned 2 AI models using 200k+ collected data. Recognised nationally & awarded 10,000 THB grant fund from the National Research Council of Thailand.

Thailand Young Physicists' Camp: Researcher and IYPT 2025 Representative Runner-up

2025

Researched Quantum Fingerprint with Kasetsart University. Utilised Raman Spectroscopy tools to identify relevant anomalies and create theoretical models. Investigated climbing magnets phenomena, friction-elasticity relationships, etc.

VEX V5 Robotics Championship:

2025

Team Lead, Robotics President, Head of Autonomous/Driving Software

Formed a team for the Competition that achieved top 10 nationally and received Judges' Award and Inspire Award. Led programming, worked during break. Reached the National Round & received the Judges' Award.

OTHER RESEARCHES & PROJECTS

- Explainable AI (XAI): Bridging the Gap Between Artificial Intelligence and Humans
- Budget Rain Forecasting Device Using Fuzzy Logic, Fine-Tuned by Collected Data

TECHNICAL SKILLS

- Programming/Engineering: Java, Python, C/C++, JavaScript/TypeScript, Lua
- Object-oriented Programming, Robotics & Sensor Integration, ML Model Fine-Tuning, Scientific Research
- Languages: English, Chinese, Thai