

# PLENGPIN TONGDON-NGAO

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*Adaptable, proactive, and a strong passion for learning, numbers, and problem-solving.*

## SKILLS, FRAMEWORKS, AND TOOLS

- **Languages** : Python, C, C++, Java, JavaScript, TypeScript
- **Tools, Frameworks, and Databases** : Next.js, React, HTML/CSS, TailwindCSS, Node.js, Express, SQL(PostgreSQL), MongoDB, Git, GitHub, VS Code, Vite, Microsoft Office, Canva
- **Modules** : Probability & Statistics, Algorithms, Data Structures, Linear Algebra, OS, etc.

## LANGUAGES

### Proficient

- English
- Thai (Native)

## EDUCATION

**Nanyang Technological University, Singapore**

**July 2024 - Present**

- **CGPA 4.92/5.00** (*First-Class Honours*), **Dean's List** AY24/25
- B.Eng. in Computer Engineering with Second Major in Data Analytics
- Singapore Ministry of Education undergraduate ASEAN Scholarship holder

## AWARDS AND ACHIEVEMENTS

- **Top 5 Award Semi-finalist team** in *Reimagine Learning hackathon NTU X Imperial College London - LLM integrated Next.js personalized chatbot website* for NTU modules with CoT prompting.
- **The first-place winner** of the *RSU Tech Project Competition 2024* - Developed an *NLP logistic regression model in Scikit-learn* to detect phishing URLs based on lexical features with 95% accuracy.
- **The second-place winner** of the *RSU Tech Project Competition 2023* - Designed a *ML-based traffic signal control system using OpenCV* to process live input. Improved simulated traffic flow by over 30%.
- Multiple **prizes and medals** in *National and International Math Olympiads* (HKIMO, IMC, POSN, etc.)
- Successful participant of *Tech Fest 2025, HOYA Electronics Hackathon, CREATE-A-THON by manus*

## EXPERIENCE

**Technology committee, NTU Buddhist Society | Full-stack developer**

**September 2025 - Present**

- Maintained and updated the NTUBS website, including event pages and multimedia content.
- Developed, tested, and deployed new features to enhance functionality (React and Next.js).

**Creative AI Club Hackathon (CP ALL Plc) | Core event organizer**

**August 2023 - January 2024**

- Took multiple responsibilities as organizer, graphic designer, emcee, and staff for a national hackathon.
- Managed budget, worked as a team, coordinated event logistics, delegated tasks across teams.
- Collaborated with senior engineers, gaining experience in event planning and professional communication.

## PROGRAMS AND CERTIFICATES

- **JANE STREET INSIGHTS 2026** Software Engineering Track participant in Hong Kong
- Completed **AI Builders Program** (Central Retail Corporation)
- Recipient of **Student Badge of Honour for Academic Excellence** Triam Udom Suksa School, Thailand
- **Perfect Scorer** of Thailand Mathayom 6 ONET Mathematics
- **Advanced Placement Scholar Distinction** with 5s in Calculus BC, Statistics, Chemistry

## PROJECTS & TECHNICAL WORK

- *Real or Fake*: Built a React + ML-based web app to detect counterfeit goods, Techfest 2025
- *Trash Classification Machine*: a magnetic sensor-based machine to handle e-waste, Circular Innovation 2023

## LEADERSHIP & INVOLVEMENT

**Institution of Engineers Singapore NTU | Honorary Secretary**

**September 2025 - Present**

- Collaborated with IES chapters across universities and countries to co-plan initiatives and share resources.
- Organized technical workshops and industry talks end-to-end (speaker outreach, logistics, publicity).

**NTU CAC (Publicity & Publication), Singapore | Content creator**

**September 2024 - September 2025**

- Produced concise marketing and event promotion videos for CAC and NTU.
- Edited video and media assets while collaborating with different teams and contributed to events.