

PHANUPHONG SAPHANON

Aspiring AI developer with a strong passion for computer vision, large language models (LLMs), and real-world AI applications. Gained hands-on experience through the Super AI Engineer Development Program and national AI bootcamps. Committed to continuous learning and applying advanced AI and software development skills to solve practical problems and drive innovation.

I'm also interested in exploring any domain that will help me improve my real-world application development skills.

ภาณุพงษ์ สภานนท์

EDUCATION

2024 -Present | Chulalongkorn University Computer Engineering and Digital Technology (CEDT) 2nd year
2017-2023 | Princess Chulabhorn Science High School Phitsanulok

SKILLS

Web Development (Next.js, Go)
Project Management (JIRA, Notion, Azure Board)
Supercomputer Lanta (Ubuntu-cli, multi node training)
AI intermediate (Image, NLP and Signal Domains)
AIoT/Microcontroller (Raspberry pi, Arduino, ESP32)

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in Phanuphong Saphanon

EXPERIENCE

- **2025**
AI Engineer Intern – Mitr Phol Group | Dec 2024 – Apr 2025 (Contract 4 months)
Built AI system for automated sugarcane quality inspection using detection, segmentation, OCR, and real-time video analytics. Improved accuracy with custom preprocessing and proposed enhancements.
- **2024**
AI Research Intern – NECTEC | Aug – Nov 2024 (Contract 4 months)
Developed and optimized AI models for real-world applications, conducted performance benchmarking, and gained end-to-end deployment experience in a research-driven environment.

COMPETITION

- **2025**
Winner (1st), CU-NEX Hackathon 2024 Built C-Canteen, an AI canteen platform (real-time crowd/seat detection, menu/price display, pre-order & digital payment, smart queue alerts).
- **2024**
TESA top gun rally, Acoustic and AI Based (Predictive maintenance)
Predictive and analyzing machine sounds to develop the Thai molding industry.
- **2024**
YES Camp - MITR PHOL Young Entrepreneur Strengths finding Camp
develop AI solutions for sustainable agriculture through mentoring, workshops, and real pitching sessions with Mitr Phol experts. Participants gain both technical and business skills, along with opportunities to further develop their projects with a leading national organization.
- **2024**
Super AI Engineer Season 4 | Kiddee
Gained in-depth knowledge in AI, including Deep Learning, Image Processing, and Natural Language Processing. Worked on hands-on projects and collaborated with leading AI professionals and organizations.
- **2023**
The AI Innovators Project 2023
Completed intensive AI training covering Python, ML libraries, advanced math, and design thinking. 1st Runner-Up at AI-Projects Exhibition
- **2023**
Bangkok software (168 training program)
I received a scholarship to study robotics at the AI Robotics Hub at CTSP in collaboration with Overseas Chinese University in Taiwan.
- **2022**
โครงการ สอวน. คอมพิวเตอร์ POSN
The 19th Thailand Olympiad in Informatics
 - I have experience solving C++ problems and can develop algorithms that are useful for data science.
 - I also represented the Naresuan University Center in the TOI19(national) competition.

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2025

3rd Place, TESA Top Gun Rally #19 (2025) Designed and implemented AI-powered embedded defense systems, including simulation (MATLAB), edge AI on Raspberry Pi, and real-time data integration for command-post visualization

RELEVANT COURSEWORK

- Embedded Systems
- Machine Learning
- Data Science & Data Engineering
- Computer Vision / Image Processing
- Cloud Computing & IoT Systems
- Operating Systems
- Computer Networks

WORK EXPERIENCE

Research Assistant — NECTEC

Aug 2024 – Nov 2024

- Conducted applied AI research and developed machine learning models for real-world use cases
- Optimized deep learning models to improve accuracy, inference speed, and computational efficiency
- Performed systematic model benchmarking using accuracy, latency, and resource utilization metrics
- Gained end-to-end experience across the AI lifecycle, from experimentation to deployment

Software Developer — Primo World

- Developed a production-ready royalty (point-member) web platform for real-world business use
- Implemented backend and frontend features to support user management, point tracking, and transactions
- Collaborated with stakeholders to translate business requirements into deployable software solutions

AI Developer (Contract) — Mitrphol

Dec 2024 – Apr 2025

- Developed an AI-powered sugarcane quality inspection system deployed at industrial weight stations and dump points
- Built object detection and segmentation pipelines for sugarcane classification
- Designed a multi-camera acquisition system and OCR pipelines for large-scale operations
- Improved real-time video analytics performance using GStreamer
- Reduced OCR false positives through custom preprocessing and spatial filtering
- Proposed future improvements including font-specific OCR models and data augmentation for challenging environments