



# Nattawadee (Pat) Wuttivoradit

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## OBJECTIVE

I aim to apply my enthusiasm for coding and problem-solving in an environment where I can learn, develop my skills, and contribute to creating innovative software solutions while gaining valuable experience.

## EXPERIENCE

### IoT Engineer Intern

June 2025 – Aug 2025

TCC Technology Group

- Developed full-stack IoT web applications using modern technologies including **Next.js**, **FastAPI**, **Flask**, **MQTT**, **InfluxDB**, and **MongoDB**, worked on front-end dashboards, back-end APIs, and real-time data pipelines.
- Collaborated in a Smart Solution team to build and improve production-ready systems by taking over existing projects, integrating **real-time** device data, and implementing user-facing features aligned with business needs.

### Head of Backend Speaker

Dec 2024 – Feb 2025

SIT Hello World 2025 – SIT, KMUTT

- Led **backend development sessions** in a **5-day crash course** for freshmen, covering **Git/GitHub**, **JavaScript**, **Node.js**, **Express.js**, **data management**, **SQL**, and **deployment**.
- Guided students through a hands-on backend project, teaching **RESTful API development**, **database integration**, **frontend integration**, and **backend best practices**.

### Java Programming Mentor

Aug 2024 – Nov 2024

Java Programming Classes – CS@SIT, KMUTT

- Mentored students in **Java programming** mentoring sessions, teaching core concepts and coding techniques.

## PROJECT

### Nongpanya Web Application – Backend Development (SIT IoT Hackathon 2024)

- Developed the backend for a medicine ordering web app that triggers a vending machine.
- Implemented **Microsoft OAuth** authentication, ensuring secure access for KMUTT students only.
- Built using **JavaScript**, **Node.js**, **Express.js**, and integrated **HTTP**, **MQTT** over WebSockets for real-time communication with the vending machine.

### Integrated Project I (University Management System) – Head of Database Management (Design & Administrator)

- Designed and create a complex database system with **80+ tables**, ensuring seamless data flow and high efficiency.
- Managed access control for **50+ team members**, ensuring secure and organized database usage.
- Collaborated with the development team to **integrate databases into applications** using **Prisma** and troubleshoot issues.

### Capture The Flag (CTF) Challenge – Women Thailand Cyber Top Talent 2024

- Secured **2nd place** in a cybersecurity CTF competition, solving challenges in **Cryptography**, **Programming**, **Web Application**, **Mobile Security**, **Network Security**, **Reverse Engineering** and **Digital Forensic**.

## EDUCATION

### Bachelor of Science in Computer Science (English Program)

King Mongkut's University of Technology Thonburi

GPAX: 3.63

## SKILLS & ABILITIES

**Programming Languages:** Java, JavaScript, SQL, Python

**Backend Development:** Node.js, Express.js, Prisma, Rest APIs

**Databases:** MySQL, PostgreSQL

**Additional Tools:** Git, Postman, Figma, Docker

**Languages:** Thai, English

**Soft Skill:** Good analytical skills, Problem solving skills, Management skills, Eager to learn