



MR. NATTAKARN KHUMSUPHA

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<https://skyjt.vercel.app>

INTRODUCTION

A computer engineer graduated from **King Mongkut's University of Technology North Bangkok (KMUTNB)** with ready-to-perform experience in full-stack development, SQL and NoSQL databases, enterprise applications, dashboard applications, and embedded systems. A completed 10-month cooperative internship at SCG, contributing to enterprise platforms for Agentic AI applications, image segmentation applications, and software development support. Experienced in collaborating with stakeholders, translating requirements into solutions. Interested in technology, digitalization, software, hardware, data, AI, and software development solutions roles, where experiences can be applied to improve operations.

EDUCATION

King Mongkut's University of Technology North Bangkok (KMUTNB)

Bachelor of Computer Engineering, GPAX: 3.54 (2nd Honorary)

Singburi School

Enrichment Program of Science, Mathematics, Technology, and Environment (SMTE), GPAX: 3.57

Bangkok, Thailand

2022–2026

Singburi, Thailand

2019–2022

SKILLS & EXPERTISE

- **Experienced:**
 - **Full Stack Software Development:** Frontend/Backend Development, Web Development, Mobile Development, API Development, Testing, and Application Maintenance.
 - **Programming & Framework:** Python, FastAPI, JavaScript/TypeScript, React/Next.js, Vue.js, Solid, Express.js, Hono, Elysia, Dart/Flutter
 - **Database & Data Analytics:** Microsoft SQL Server, MySQL/MariaDB, PostgreSQL, Firebase, Supabase, Data Querying, Data Cleaning, Data Visualization
 - **Cloud & Network:** Vercel, Microsoft Azure, Windows Server, Linux, Docker/Podman, Computer Network, MQTT, IoT, Cloud Computing
 - **AI:** Ollama, n8n, PydanticAI, LangChain, Azure AI Foundry
 - **Computer Vision:** CNN, YOLO, Mediapipe, Image Processing with OpenCV
- **Proficient:**
 - **Programming & Framework:** Rust, Tokio, Ratatui, Actix Web, Go, Gin
 - **ML:** Tensorflow/PyTorch ML

EXPERIENCE & COMPETITION

- **AMD Hackathon Act II**
 - Developing a AI Agent Router that accurately route your prompt to a appropriate model for the best answer.
 - I have participated in developing the router using a Fine Tuned LLM technique over 71K datasets and DistillBERT model along with other techniques, result in 100% accuracy while using just ~9000 tokens to get the best answer. Here: <https://tinyurl.com/clean-food-good-router>
- **10-month Cooperative Education Internship at SCG**
 - Developing a Multi-AI Agent System which includes: Frontend Website, Backend Server, and AI Agents Workflow for easy data analytics, just chatting with AI Agents, or viewing insight data and statistical analysis at dashboard pages.
 - Developing "Energy Platform", a gauge observing platform to observe and log gauge readings into the platform, which includes: Frontend Dashboard and Management Website, Backend Server with Value Extraction through Image Processing, Image Segmentation, or AI Vision.
 - Collaborating with engineers, users, and stakeholders to analyze requirements, develop, test, and evaluate products.
 - Gaining exposure to the enterprise environment, applications, operations, database access, deployment, and reliability improvement.
 - Improving and optimizing product performance, modularizing, and enhancing AI Agent workflow efficiency.
- **TESA Top Gun Rally 2025 (5th place)**
 - Design and develop a defensive system with drone detection, tracking, and locator using Image Processing, Image Segmentation, and Object Detection and Tracking. Altogether, deploy into an embedded edge computing device.
 - Collaborating with the team to perform system integration into the offensive-defensive command post system, prototype testing, and final presentation preparation.
- **AIDM**
 - Redevelop AIDM, a mobile app from the Department of Livestock, to perform artificial insemination and health logging for cows, buffalo, and lambs, into a proper version-controlled, structured, and performant Flutter app.
 - Collaborating with the team, scrum master, and bureaucrat representative to perform progress reporting, testing, and maintenance of the app.

ACADEMIC PROJECT

- **RuamMitr:** a super app that contains a social media, toilet, and bin finder, and an offline game, with over 20 members on an Agile framework.
- **BetterLight:** an IoT project that controls IoT lightbulbs through the Zigbee2MQTT with a smart switch, a web app, and a remote from scratch, connected with Node-RED.
- **Budgetman:** a mobile app managing your budget at ease, developed in Flutter.

LANGUAGE PROFICIENCY

- **Thai:** Native Speaker
- **English:** CEFR at B2.1



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