

Chinavat Nachaithong

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Education	Year	Degree	Institute/School	Details
	2022-2026	B.Sc., Applied Computer Science	King Mongkut's University of Technology Thonburi	GPAX: 3.69 Scholarship‡

‡ Petchra Pra Jom Klao Scholarship — maintaining a GPAX ≥ 3.40 .

Awards & Highlights	• SuperAI Engineer Season 4 — Gold Medalist: National Top 10 finisher (one of only 10 awarded); won 50,000 THB at the AI Thailand Forum 2024. Scored across weekly hackathons on real company problems across NLP, data science, signal processing, IoT, and image processing. • Typhoon Hackathon 2024 — Finalist: Built LawBuddy, a fine-tuned Thai legal LLM paired with a custom RAG pipeline. • Llama 3 Hackathon (Lablab.ai, international) — Finalist: Shipped a complete LLM application in 48 hours.
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Professional Experience	DeepCapital — AI Engineer, Computer Vision (2024 – 2026)
	• Owned production computer vision systems end to end — prototype to deployment — for factory automation and large-scale CCTV operations. • Built and maintained real-time inference pipelines for auto-counting and quality inspection, turning raw multi-camera video feeds into reliable business signals.

	Looloo Technology — Machine Learning Engineer (2021 – 2023)
	• Ran full data pipelines from collection to model evaluation; led data engineering, pseudo-labeling, and model-synthesis pipelines for the Universal Text Detector (printed and handwritten docs).

LLM & Applied AI Projects	LawBuddy — Thai Legal Assistant (Typhoon Hackathon Finalist) (2024)
	• Fine-tuned a Thai LLM and built a custom retrieval-augmented-generation (RAG) pipeline that grounds every answer in actual statutes and legal documents rather than model guesswork.

	Payex — Receipt Document-Understanding Pipeline (2024)
	• Composed four specialized models (Grounded-SAM, CRAFT, TrOCR, and an LLM normalizer) into one robust pipeline that extracts clean, structured line items from noisy real-world convenience-store receipts.

	Brainboost — LLM Content-Generation Product (2025)
	• Built end to end: an LLM backend pipeline that ingests lecture material and auto-generates bite-sized, game-like learning content, served to a production Flutter mobile client.

	Flashboi — PDF-to-Flashcards Discord Bot (Llama 3 Hackathon Finalist) (2024)
	• Shipped a complete LLM application in a 48-hour sprint: document ingestion and retrieval with LlamaIndex, delivered through a Discord bot integration.

Research & Reinforcement Learning	Google Play Review-Quality Scoring — iSAI-NLP 2025 (2025)
	• Peer-reviewed transformer-based NLP study estimating how informative an app-store review is for product decisions; covered the full research arc from problem framing and modeling to evaluation and publication.

	GRPO for Flow-Matching VLA Models (2026)
	• Implemented GRPO from published research to fine-tune a SmolVLA vision-language-action model; built the end-to-end RL training pipeline and diagnosed how CPU-bound simulation throughput bottlenecks online policy convergence.

Technical Skills	ML / Deep Learning - PyTorch, Hugging Face, supervised/unsupervised learning, evaluation & structured error analysis, transformer models, diffusion world models. LLM Applications - Fine-tuning (Typhoon, OpenThai-GPT, Llama 3), RAG architectures, LlamaIndex, prompt engineering, LLM-powered product pipelines. ML Pipelines & Production - End-to-end data pipelines (collection, pseudo-labeling, evaluation), multi-stage inference pipelines, real-time multi-camera inference, latency/throughput optimization. Computer Vision - Object detection & tracking, OCR, Zero-shot, YOLO-family. Engineering - Python, Git, Linux, docker, GCP, AWS.
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