Korawit Bamphen

AI & Automation Engineer (Intern)

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Available full-time Dec 2026 - Mar 2027 (4-month co-operative education) · English: technical reading and writing; speaking in progress (passed university ENG requirement)

SUMMARY

Final-year Computer Science student (GPAX 3.91/4.00) who builds AI and automation systems end to end. I designed a Korean-to-Thai LLM translation pipeline that ran on 1,377 panels across 15 titles, trained two YOLO models on datasets I collected and labelled myself, and shipped a paid membership platform that serves 41 paying members. I measure every step, and I write the documentation that lets someone else run it.

SKILLS

- Programming: Python, TypeScript, SQL, PowerShell (basic)
- AI / ML: PyTorch, Ultralytics YOLO, MobileNetV3, OpenCV, NumPy, model evaluation
- LLM / NLP: OpenAI, Gemini, OpenRouter API, prompt engineering, PyThaiNLP, EasyOCR
- Automation: n8n (webhook -> API -> database -> notification), Python and PowerShell scripting
- Backend / API: FastAPI, Node.js, REST, SQLAlchemy, Drizzle, Swagger
- Data: PostgreSQL, SQLite, SQL, data cleaning and batch processing
- DevOps: Docker, docker-compose (dev and prod), Linux VPS, Caddy, Cloudflare, GitHub Actions
- Documentation: user guides, process flows, project notes, handover docs
- Testing: pytest, Jest

PROJECTS

1. **Manhwa LLM Translation Pipeline - prompt engineering and automation (solo)** - Designed an end-to-end KO->TH pipeline: text detection, OCR gap filling, speaker attribution from linguistic context, per-speaker LLM agents, and a character bank in SQLite. Shipped on 22 chapters, 1,377 panels, 15 titles.

2. **Guidetoon.com - paid membership platform in production (solo)** - Next.js 15, Better Auth, PostgreSQL with Drizzle, Stripe, deployed with Docker on a Linux VPS behind Caddy and Cloudflare. 41 paying members; I handle login failures, paid-but-locked cases and renewals myself.

3. **Moctoon API - FastAPI service with Swagger** - One unified API over 5+ data sources under /sources/{name}, a single JSON shape, documentation at /docs. Adding a source takes three steps; it runs as the backend for n8n workflows.

4. **Self-trained vision models** - YOLO text detector (~0.09 s per image on CUDA) and MobileNetV3 cut-point classifier (~1.5 s per image), both trained on datasets I collected, labelled and hard-case-mined.

5. **LineHarmony - Thai text layout engine (public repo)** - Balanced word wrap from real font metrics plus Thai language rules (no split words, no conjunct at line end), with a pytest suite; ~0.7 ms per message.

EDUCATION

BSc in Computer Science and Data Innovation - Suan Sunandha Rajabhat University, Bangkok, Thailand (Aug 2023 - Mar 2027, in progress)

- GPAX 3.91/4.00 (126 credits)
- Coursework: CSD2301 LLM Labs (LLM data quality, AI-assisted EDA, model evaluation), Docker for Data Science and ML Labs

AVAILABILITY

Available full-time from December 2026 to March 2027 for a co-operative education placement, on-site in the Bangkok metropolitan area. I like working with business teams to understand the requirement, and I am happy to own the process flows, test notes and user guides that come with a project.