Tanakorn Kaewmai

Full-Stack Developer / DevOps Engineer Intern

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SUMMARY

Third-year Computer Science student at the University of Phayao (GPAX 3.53) seeking a Full-Stack or DevOps internship. Builds systems end to end with Next.js, TypeScript, FastAPI and PostgreSQL/PostGIS, and ships them with Docker Compose and GitHub Actions. Won two awards at Frostbyte Hackathon 2026 as a solo developer.

SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, Tailwind CSS, HTML/CSS
Backend & Databases: Node.js, Express, Python, FastAPI, Flask, PostgreSQL, PostGIS, Prisma, Supabase, MySQL
DevOps & Tools: Docker, Docker Compose, GitHub Actions, CI/CD, Linux, Git, Caddy, Vercel, Playwright, pytest
AI & Data: Google Earth Engine, Sentinel-2, scikit-learn, SHAP, YOLO, Gemini API, MapLibre GL

PROJECTS

RiceWatch
Team of 3 — Backend + Google Earth Engine · In progress

FastAPI, Python, PostgreSQL, PostGIS, Google Earth Engine, Next.js

- Developed a 17-step Google Earth Engine pipeline that turns Sentinel-2 imagery into NDVI/EVI/NDWI anomaly maps for 158,567 rai (31,392 grid cells, 12 sub-districts).
- Built the FastAPI + PostGIS backend with JWT cookie auth, audit logging and LINE/email alerts, sharing generated OpenAPI types with the Next.js frontend.
- Automated quality gates in a 6-job GitHub Actions pipeline: linting, architecture checks, containerised tests, Playwright E2E and a Docker Compose smoke test over HTTPS.

Savory Bistro — Table Reserve
Solo · 2026

Next.js, TypeScript, Supabase, PostgreSQL, Prisma, Tailwind CSS | github.com/tanakorn911/table-reserve

- Built a bilingual (TH/EN) reservation system with Next.js 16, Supabase and Prisma, featuring a drag-and-drop interactive floor plan.
- Integrated PromptPay QR deposits with slip upload and Gemini 2.5 table recommendations.

PM2.5 Phayao Forecast
Solo · 2026

Next.js, TypeScript, PostgreSQL, Prisma, FastAPI, scikit-learn | github.com/tanakorn911/tanakorn911-pm25-phayao-forecast-app

- Built a PM2.5 monitoring platform with 24-hour forecasts using Next.js, PostgreSQL/Prisma and a FastAPI + scikit-learn ML service.
- Designed an ingestion worker that pulls Open-Meteo and Air4Thai data into PostgreSQL and lets admins retrain the model on real readings.

SmartCare
Solo · 2026

Next.js, TypeScript, PostgreSQL, Prisma, FastAPI, scikit-learn | smartcare-phi.vercel.app

- Trained a Random Forest risk classifier (97.75% accuracy, F1 0.978 on 2,000 synthetic samples) and served SHAP explanations through FastAPI.
- Built a bilingual Next.js 16 app with a caregiver dashboard, real-time alerts and PDF medical reports.

EXPERIENCE

Backend & Google Earth Engine Developer
Nov 2026 – Present

RiceWatch — Senior thesis project, University of Phayao (3-person team)

- Own the backend, Sentinel-2 pipeline and CI/CD on a 16-week phased development plan (see Projects).

EDUCATION

B.Sc. in Computer Science, University of Phayao
GPAX 3.53 · 2024 – 2027 (Expected)

AWARDS

Frostbyte Hackathon 2026 (SmartCare): Winner — Theme-Based Awards, Winner — Participation & Completion Recognition

LANGUAGES

Thai: Native · English: Basic (A1)