Tayakorn Wetchakun ทยากร เวชกุล (Ryu)

Founder of RTT (rttransit.com) · Full-Stack & Embedded Developer

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SUMMARY

First-year IT student who ships production software for real businesses. Founder of RTT, a live realtime-transit platform with self-built GPS hardware, deployed with KMITL's shuttle fleet. Two-time NRCT gold-medal inventor. Experienced across web, AI/computer vision, and embedded systems — from firmware to paying users.

STARTUP

RTT — Real Time Transit · Founder & Developer · rttransit.com 2026 – Present

- **Live product:** realtime map that makes Thailand's songthaew & local transit visible — vehicle tracking, per-stop ETA learned from real road speeds, and a multi-modal journey planner (walk + songthaew + bus + rail). No app install required.
- **Real deployment:** tracks KMITL's 6 shuttle routes in daily use via partner API integration; platform hardened for public traffic (HMAC-signed ingestion, PDPA-safe public API).
- **Hardware:** designed and assembled a GPS+4G tracking box at ~฿1,700/unit — meter-level accuracy, field-tested coordinate transmission.
- **Business:** B2B2C model (riders free, fleet owners pay ฿700/yr per vehicle + map advertising); pilot roadmap Nan → Chiang Mai with pitch deck & go-to-market plan.

> Built end-to-end by a 2-person student team: firmware, backend (Python), single-file MapLibre web app, data pipeline for 547 routes / 20,000+ stops nationwide, and the business plan.

AWARDS & HONORS

Gold Medal — **Thailand New Gen Inventors Award 2026** (NRCT)
AI trigger-finger prevention & rehab device for rubber-farm workers (flex-sensor glove + realtime computer vision) — certified for real-world use; role: end-to-end developer.

Gold Medal — **Southern Inventor Award 2025** (NRCT)
Semi-automatic AI fish-fry counter for aquaculture (YOLOv8 on Raspberry Pi); role: AI developer.

1st Place — Computer Programming Skills (Songkhla Vocational Education Office) · **1st Place** — Young Inventors Contest (Hatyai Technical College) · **Finalist** — SITE Inno Challenge: Young Health Innovator (PSU Faculty of Medicine)

FREELANCE / CLIENT WORK

Software Developer · production systems for Thai SMEs 2025 – Present

- **Payroll & attendance platform** (FastAPI, React, Docker) — runs a manufacturing company's payroll daily: Thai OT rules, e-payslips, social security; plus LINE bots for leave requests and manager KPI logging.
- **Payroll → SaaS:** converted the system into a licensed multi-tenant SaaS — signed-JWT licensing, PromptPay/card checkout, automatic per-tenant container provisioning, customer dashboard.
- **E-commerce automation:** auto-shipping across 16 online shops (Pancake POS), Discord parcel-intake bot with QR/barcode OCR + daily reports, new-listing detection bots for eBay/Etsy/Yahoo Auctions → Telegram alerts.
- **VanSale:** Android kiosk POS for an ice-factory delivery fleet — on-the-spot invoices, Bluetooth thermal printing, Google Sheets/Cloud sync with offline mode.
- **ChickenQC:** realtime poultry defect inspection on a production line — YOLOv11 + HSV color analysis on Raspberry Pi 5.

SKILLS

Languages	Python, JavaScript/TypeScript, Kotlin, Go, Rust, C#, SQL, C++ (Arduino)
Web	React/Next.js, FastAPI, Node.js, MapLibre GL, single-file production apps
AI / Data	YOLO/OpenCV, Mediapipe, XGBoost, LSTM, OCR pipelines, Playwright automation
Infra	Docker, Linux servers, Cloudflare tunnels, SQLite/Postgres
Hardware	ESP32 firmware, GPS/GNSS, 4G modules, flex sensors, Raspberry Pi, device assembly

CERTIFICATIONS

freeCodeCamp: Machine Learning with Python · Scientific Computing with Python · JS Algorithms & Data Structures · Foundational C# with Microsoft | Google Cybersecurity (Coursera) | NVIDIA: AI for All (GenAI) · InfiniBand Essentials · Ansible Essentials | HackerRank Software Engineer | Mahidol MUX: Intermediate Computer Programming

EDUCATION

King Mongkut's University of Technology Thonburi (KMUTT) · School of Information Technology 2026 – Present (Year 1)
— B.Sc. IT (Active Recruitment admission)