RATCHANON KUNYODYING
Software Developer

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SUMMARY

Full-Stack Developer / AI & IoT Integration Specialist with solid experience in building enterprise-grade software for automation and smart infrastructure. Passionate about developing scalable, data-driven systems that connect software, hardware, and analytics seamlessly. Currently working at BBTV New Media and open to freelance opportunities.

EDUCATION

Rajamangala University of Technology Lanna – B.Eng. in Computer Engineering (GPA 3.29)　　　**2021-2025**

WORK EXPERIENCE

BBTV New Media | Bangkok, Thailand
Software Developer | June 2025 - Present
Key Projects

Traffix – Smart Parking & Access Control System　　　August 2025 - October 2025
- Developed an AI-powered smart parking and access control platform for multi-company environments.
- Built using FastAPI, Next.js, PostgreSQL, TesseractOCR and MQTT with edge devices (AIBox-1684X, Firefly RK3588).
- Implemented real-time license plate recognition and automated gate control using RTSP cameras and IoT sensors.

Warehouse Checkout System　　　June 2025 – July 2025
- Developed an enterprise-grade web application for real-time warehouse operations.
- Built using NestJS, Next.js, PostgreSQL, and Redis.
- Implemented modular backend architecture supporting scanner sessions, conveyor control, and NG product tracking.
- Integrated TCP and WebSocket communication for real-time updates across 10+ IoT devices.

Banana Coding | Chiang Mai, Thailand
Software Developer Internship | November 2024 - February 2025

Banana Talent (Phase 1.5)　　　November 2024 – February 2025
- Developed Banana Talent (Phase 1.5) by adding the feature to import Excel files with validation, such as preventing empty values before saving to the database.
- Converted files to Base64 to preserve the accuracy of Thai text and prevent issues with displaying garbled characters before saving to the database.
- Used the gem roo to read Excel files.
- Developed Dashboard Analytics by retrieving data from the database for analysis and displaying it as analytical charts using ApexCharts.
- Improved code quality by using code linting (TSLint) and adding unit testing (RSpec).
- Developed using AngularTS, Ruby on Rails, and PostgreSQL.

TECHNICAL SKILLS

Programming Languages
TypeScript, Python, JavaScript, SQL, Java, Dart, Ruby

Frameworks & Libraries
Flutter, Angular, Vue, Ruby on Rails, Node.js, NestJS, FastAPI, Next.js

Databases
PostgreSQL, Firebase Firestore

Tools & Platforms
Docker, Postman, Xcode

SOFT SKILLS

- Teamwork
- Problem Solving
- Time management
- Communication