

tanakorn niamchaona (Jamebond)

Embedded Software Engineer

bangkok

+66929646940 tanakorn.niamchaon@gmail.com



ABOUT ME

I am a versatile Embedded Systems Programmer passionate about hardware and end-to-end system development. My core expertise lies in circuit design and firmware development for platforms such as ESP32, Arduino, Raspberry Pi, Jetson, and various microcontrollers. I build robust communication systems for industrial equipment using RS485, RS232, and UART protocols. Complementing my hardware expertise, I am experienced in Frontend development and possess mid-level Backend capabilities, backed by a solid grasp of overall system architecture. Continually expanding my knowledge, I am always ready to embrace new technologies and take on multi-disciplinary, challenging projects.

EDUCATION

(SAU) SOUTHEAST ASIA UNIVERSITY

- Bachelor of Engineering in Computer Engineering
Graduation Year: 2019 | GPA: 2.59
- Senior Project: IoT Monitoring System for Coin-Operated Heating Machines

WORK EXPERIENCE

Skysee ai technology co ltd IT Programmer & embedded software

2023 – PRESENT

- IoT System Development: Designed and developed end-to-end IoT solutions for production and control systems, specializing in commercial washers, dryers, coin-exchange machines, and related equipment.
- Embedded & Electronics: Circuit and PCB design, C/C++ firmware development, with extensive expertise in Arduino and ESP32 frameworks. Proficient in hardware communication protocols (UART, I2C, SPI, RS485) and IoT connectivity (MQTT, HTTP).
- IoT & Cloud Architecture: End-to-end IoT system design, MQTT infrastructure, Over-the-Air (OTA) updates, device provisioning, and cloud integration.
- AI & Automation: Data analysis, data pipeline construction, and the development of automated alerting and predictive maintenance systems.
- Backend Development: Node.js, RESTful APIs and Microservices architecture, SQL/NoSQL databases, security implementation, system logging, and message queuing.
- Mobile App Development: Cross-platform development using React Native, real-time IoT device integration, and UI/UX design.

YAP International Co.,Ltd IT Programmer

2021 – 2023

- Mobile App Development (Core Expertise): Specialized in designing and developing mobile applications as a primary focus, utilizing cross-platform frameworks including React Native, with specific experience in developing control systems for electric motorcycles.

TANATAT SOLUTION IT Programmer

2019–2023

- Mobile Application Development (B2B Kiosk Solutions): Developed custom mobile applications for B2B kiosk systems as an outsourced provider. Analyzed client requirements to deliver robust, cross-platform solutions using React Native, ensuring high stability and a seamless user experience

Ohther Project

- Full-Stack POS & Store Management Solution: Engineered an end-to-end retail management system. Key features include streamlined checkout operations, dynamic inventory control, and direct integration with thermal printers for automated receipt generation, significantly improving retail workflow efficiency. Programming by Electron, React.js
- Mobile Application for Smart Agriculture (IoT): Developed a responsive mobile interface to control and monitor embedded IoT systems for smart farming. Enabled real-time sensor data visualization and remote hardware actuation, creating a seamless bridge between the mobile application and microcontroller units to automate agricultural processes. Programming by React native

SKILLS

- Embedded Systems
 - C
 - C++
 - python
 - pytouch
- Database
 - Database design
 - MySQL ,pas
 - SQL Server
 - noSQL (MongoDB)
- Mobile Application
 - React native
 - Android
- Other
 - Docker
 - MQTT
- Backend
 - Node.js
 - Res API, API design
 - fastify , NestJS
- Programing Languages
 - C / C++
 - Python
 - JavaScript/Typescript
 - SQL

LANGUAGES

- thai
- English