

NATTACHAI PILABUT

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SOFTWARE ENGINEER | PROFESSIONAL SUMMARY

A results-oriented and highly motivated Manufacturing Systems Engineering graduate with strong analytical and problem-solving skills. Passionate about software engineering and full-stack web development, with hands-on experience in Next.js, Node.js, TypeScript, JavaScript, and MongoDB. Skilled in building dynamic, responsive, and scalable web applications using modern frameworks and technologies. With a collaborative mindset and continuous learning attitude, I am eager to contribute effectively as a Software Engineer within an innovative team environment.

EDUCATION

King Mongkut's Institute of Technology Ladkrabang 2021 – 2025

- Major: Manufacturing System Engineering

LANGUAGE

Thai (Native Speaker)
English (Business level)

PROJECT EXPERIENCES

Smart Farm Notification System Mobile & Web App - Group Leader

April - June 2025

- Led software project:** Managed teams, developed with React Native and Firebase, and integrated real-time IoT alerts.
- IoT integration:** Integrated sensor networks with cloud messaging using MQTT, Firebase, and Node.js for instant alert delivery.
- Built cross-platform application:** Developed using React Native for consistent performance across Android and web platforms.
- Strong communication:** Effectively communicate within teams and with professor

Web Shop Project – Full-Stack E-Commerce Platform (Team Leader)

November - December 2024

- Led backend project:** Developed a full-featured e-commerce platform with authentication, product management, cart, and checkout systems.
- Payment integration:** Payment integration: Implemented secure checkout using PromptPay and TrueMoney Wallet API.
- API & database design:** Developed scalable REST APIs and structured MongoDB for dynamic data handling.
- Frontend collaboration:** Integrated backend with a responsive React.js UI and ensured smooth data flow.
- Team collaboration:** Coordinated between backend logic and bot behavior for smooth user experience

Own Business - Full-Stack Developer

March 2020 - Present

- Back-End & Service Development:** Developed and maintained Discord bot services for client interactions.
- Website Development:** Built e-commerce websites, handling both Front-End and Back-End tasks.
- Technology Stack:** Primarily worked with Next.js, Node.js, Express.js, MongoDB, and LuaU.

INTERNSHIP EXPERIENCE

Sixsigma systems CO. - Mechatronics Engineering Intern

April - June 2024

- Designed a robotic arm using SolidWorks, focusing on joint mechanics, precision, and movement range
- Studied and implemented stepper motor control systems, including driver setup and movement logic
- Studied the R245 motion control language and developed a custom CNC-style system to drive stepper motors with precision. Built a real-time control application using VB.NET, allowing both manual operation and programmable sequences for robotic arm movement.
- Integrated AI-assisted features to enhance movement control, improve accuracy, and enable semi-autonomous operation

SKILLS

- Programming Languages:** Next.js, Node.js, TypeScript, Tailwind, CSS, Python, JavaScript, React
- Frameworks & Tools:** React Native, Express.js, Firebase, MQTT, Git, Netlify, Visual Studio Code
- Leadership Skills:** Analytical Thinking, Leadership, Decision-Making

AWARDS

The Young Energy Designer Awards of Thailand 2023 | Ministry of Energy

Certificate of Achievement TypeScript | Get started with TypeScript by BORNTODEV

REFERENCE

Assoc.Prof.Dr. Chatrpol Pakasiri | Academic advisor/ Lecturer
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