

PANNAWIT KRUTNAK

Full-Stack Developer & Mobile Engineer

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PROFESSIONAL SUMMARY

Innovative Software Engineer specializing in mobile and web development, AI/ML research, and **Scalable system design**. Experienced in deploying production-ready applications to the **Google Play Store** and **Apple App Store**. Skilled in Flutter, Next.js, Python, and TensorFlow, with award-winning projects in national competitions. Passionate about building solutions that solve real-world problems through **Clean Architecture** and efficient code.

EDUCATION

Mahidol University, Faculty of ICT

2023 - Present

Bachelor of Science in Information and Communication Technology

Relevant Coursework: Data Structures & Algorithms, Software Engineering, AI & Machine Learning, Web & Mobile Development

TECHNICAL SKILLS

Languages:	Python, C/C++, Golang, JavaScript, TypeScript, Dart, PHP, SQL
Frontend:	Flutter, Next.js, React, HTML/CSS, Tailwind CSS
Backend:	Node.js, Express.js, PostgreSQL, MongoDB, Redis, Firebase, RESTful APIs
Mobile Deployment:	Google Play Console, Apple App Store, App Signing, CI/CD for Mobile
AI/ML:	TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, Computer Vision
Tools/DevOps:	Git, Docker, Linux, Agile/Scrum, UML

EXPERIENCE

Tech Horizon (Japan-based Fintech)

Jan 2026 - Present

Backend Developer Intern / Part-time

- Digital Wallet & BNPL Development:** Engineering a Japanese e-wallet ecosystem using **PHP**, integrating "Buy Now, Pay Later" (BNPL) functionality to allow users to make deferred payments, similar to Shopee Pay Later.
- Payment Gateway Architecture:** Implementing and managing integrations with major Japanese Payment Gateways to support credit cards, bank transfers, convenience store, and online payments.

MUICT DEV-CLUB

Sep 2024 - Present

Mobile Frontend Developer & Agile Scrum Leader

- Led the development team as an **Agile Scrum Leader**, conducting **Sprint Planning** to ensure **On-time Delivery** of projects and improving iterative processes.
- Designed and developed faculty mobile applications using **Flutter** and **Clean Architecture**, enhancing code maintainability.

Biomedical Informatics Research Lab

Aug 2024 - Present

Junior Research Assistant

- Engineered **End-to-end AI pipelines** using **TensorFlow** and **PyTorch** to process **Large datasets**, ensuring high code standards and **Reproducible Research**.
- Designed a web platform for deploying AI solutions, enabling researchers to interact with models via **RESTful APIs**.

CourseSquare

2024

Software Engineering Intern

- Collaborated in an **Agile** environment to maintain and enhance the educational platform's web applications.
- Identified and resolved critical bugs, directly contributing to increased **Platform Stability** and improved user satisfaction.

PROJECTS & AWARDS

BONDUP - Community & Activity App

Lead Mobile Developer (Flutter)

- Developed a **User Interaction-focused** application for **Real-time activity management** using **Flutter** and **Clean Architecture**.
- Managed **State Management** and API integration to ensure seamless real-time data updates and user engagement.
- Independently handled the entire **Deployment process** on **Google Play Console** and **Apple App Store**, ensuring the app is production-ready.

BlinkDx – AI-Powered Blink Anomaly Detection

Honorable Mention – NSC 2025

- Developed a deep learning system achieving **95% accuracy** in detecting blink irregularities for medical diagnosis.
- Utilized computer vision models for real-time patient video analysis.

AI System for Restricted Area Protection

1st Prize – AI Hackathon 2024

- Designed a complex surveillance system for **Bird detection** capable of operating effectively under **Dynamic environmental** conditions.
- Integrated camera and laser automation for precise area protection.

MUICT Open House Registration System

2024

- Built a robust registration platform using **Next.js** and **Express.js**, successfully handling **200+ participants** concurrently.
- Streamlined data collection workflows for faculty events using efficient database design.