

# PANNAWIT KRUTNAK

Full-Stack Developer & AI/ML Engineer

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pwteam.site

## EXPERIENCE

### CourseSquare — Software Engineering Intern

CourseSquare Co., Ltd. | 2024 | Thailand

- Collaborated with development team to build and maintain web applications for educational platform
- Gained hands-on experience with modern web technologies and agile development practices
- Contributed to feature development and bug fixes, improving user experience and platform stability

### MUICT DEV-CLUB — Mobile Frontend Developer

Faculty of ICT, Mahidol University | Sep 2024 - Present | Thailand

- Developed and deployed mobile applications in Flutter using Clean Architecture, enhancing maintainability and scalability for faculty projects
- Created an engaging event promotion website for the MUICT Open House, increasing participant registration and visibility
- Collaborated as Agile scrum leader to deliver projects on time, improving team efficiency and iterative development processes

### Biomedical Informatics Research Lab — Junior Research Assistant

Faculty of ICT, Mahidol University | Aug 2024 - Present | Thailand

- Designed and implemented a web platform to deploy AI solutions, providing researchers with an intuitive and interactive interface
- Processed and cleaned large biomedical datasets, training machine learning models that achieved high accuracy and reliability in predictions
- Developed and optimized end-to-end AI pipelines using TensorFlow and PyTorch, ensuring scalable and reproducible research workflows

## PROJECTS & AWARDS

### Honorable Mention – 27th National Software Contest (NSC 2025)

BlinkDx – AI-Powered Blink Anomaly Detection | 2025

- Developed a deep learning system to detect blink irregularities for medical diagnosis with 95% accuracy
- Implemented computer vision models for real-time patient video analysis

### 1st Prize – Hackathon: Unlocking the Potential of AI Engineering

Khon Kaen University | 2024

- Designed an AI system using cameras and laser automation to protect restricted areas
- Achieved reliable bird detection under dynamic environmental conditions

### MUICT Open House Registration System

Next.js, Express.js, MongoDB | 2024

- Developed and deployed a website for open house registration, efficiently handling 200+ participants per event

- Streamlined data collection and automated workflow for faculty events

## EDUCATION

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### Mahidol University, Faculty of Information and Communication Technology

Bachelor of Science in ICT | 2023 - Present | Thailand

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, AI & Machine Learning, Web & Mobile Development, Computer Networks, Database Systems

## SUMMARY

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Innovative Software Engineer specializing in mobile and web development, AI/ML research, and scalable system design. Skilled in Flutter, Next.js, Python, and TensorFlow, with award-winning projects in national competitions and hackathons. Passionate about building solutions that solve real-world problems.

## SKILLS

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Golang   Flutter   Next.js   Python   TensorFlow   C/C++   TypeScript   Dart   JavaScript   React   Node.js   Express.js  
PyTorch   Scikit-Learn   Pandas   NumPy   PostgreSQL   MongoDB   Redis   Docker   Git   Linux   Agile/Scrum   UML  
Clean Architecture

## FIND ME ONLINE

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### Website

<https://www.pwteam.site/>

### GitHub

[github.com/pwteam](https://github.com/pwteam)

### LinkedIn

Pannawit Krutnak

### Facebook

Pannawit Krutnak