

PANNAWIT KRUTNAK

Full-Stack Developer & AI/ML Engineer

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EXPERIENCE

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

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

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

- GolangFlutterNext.js
- PythonTensorFlow
- C/C++TypeScript
- DartJavaScriptReact
- Node.jsExpress.js
- PyTorchScikit-Learn
- PandasNumPy
- PostgreSQLMongoDB
- RedisDockerGit
- LinuxAgile/Scrum
- UMLClean Architecture

FIND ME ONLINE

Website

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

GitHub

github.com/pwteam

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