

Panachai Bualoi

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Technical Skills

Languages	TypeScript, JavaScript, Python, C/C++, SQL
Frontend	React, Next.js, Tailwind CSS, Ant Design, HTML5, CSS3
Backend	Node.js, Express.js, FastAPI, RESTful API
Database	MongoDB, PostgreSQL, Firebase
Tools	Docker, Git, Prisma, Railway, Figma

Education

King Mongkut's University of Technology Thonburi (KMUTT)	Bangkok, Thailand
Bachelor of Engineering in Computer Engineering	

Projects

IoT Fall-Risk Monitoring Platform (Siriraj Healthkathon 2026)	[GitHub]
Next.js, TypeScript, Node.js, PostgreSQL, ESP32, BMI160, MQTT	
- Developed an IoT-based fall-risk monitoring platform using ESP32, BMI160, and Next.js. - Implemented RESTful APIs and MQTT for real-time sensor communication. - Designed a nurse notification workflow for early fall-risk intervention.	
Skin Disease Detection Web Application	[Backend] • [Frontend]
React, TypeScript, FastAPI, Firebase, Machine Learning	
- Developed a full-stack skin disease classification web application using React and FastAPI. - Integrated machine learning inference and Firebase Authentication. - Built responsive user interfaces with Tailwind CSS.	
LPG Store POS System	[GitHub]
React, TypeScript, Node.js, Express.js, MongoDB	
- Developed a full-stack POS system using React, Express.js, and MongoDB. - Implemented inventory management and sales reporting features. - Designed responsive interfaces for retail businesses.	
Hotel Booking Website	[GitHub]
React, TypeScript, Tailwind CSS	
- Developed a responsive hotel booking website using React and TypeScript. - Implemented authentication and reservation management features.	
Work Experience	
Software Engineering Intern	Jun 2025 – Aug 2025
CP ALL Public Company Limited (ALL Robotics Academy)	
- Collaborated with engineers on robotics software development and system integration. - Assisted in software testing and deployment.	
Programming Lecturer (Part-Time)	Apr 2024 – Apr 2026
Dolphin Education Consultant	
- Taught programming fundamentals and web development. - Mentored students in project-based software development.	
Siriraj Healthkathon 2026	Jul 2026
Healthcare Innovation Competition	
- Developed a healthcare monitoring solution within a multidisciplinary team. - Built frontend modules and integrated RESTful APIs.	