



# KRITCHANAT MALAIKWAN

## Software Engineer

Chonburi, Thailand

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### SUMMARY

Software Engineer with experience in mobile development, backend APIs, OCR, and computer vision. Built AI-ready camera pipelines, OCR/document-detection services, and cross-platform plugins. Proficient in FastAPI, iOS, Android, Docker, and CI/CD. Also experienced with LLM-based applications (LangChain) and automation workflows (n8n, LINE Chatbot). Achieved national-level awards (NSC, Hackathon) and completed an industry internship.

### TECHNICAL SKILLS

- **Programming Languages:** Swift, Kotlin, Dart, Python, TypeScript, JavaScript, Golang
- **Mobile Development:** iOS (SwiftUI), Android (Kotlin, ML Kit), Flutter, React Native
- **Frontend:** React, Next.js, Vue, Tailwind CSS
- **Backend:** FastAPI, Gin, Node.js (Express), REST API Design
- **AI / Vision:** Apple Vision, OpenCV, Tesseract OCR, ML Kit, Document Detection, Perspective Warp, LangChain
- **Databases:** MySQL, PostgreSQL, MongoDB
- **DevOps & Tools:** Docker, Jenkins, GitHub Actions, Git, Postman, Firebase, Supabase, n8n

### EXPERIENCE & PROJECT

#### Mobile Developer Intern - Indistinct Company Limited (Apr – Jun 2025)

- Developed and optimized mobile features using modern frameworks, and collaborated closely with designers and backend engineers to integrate real-time APIs and authentication systems. Gained experience in production-level workflows, debugging, and release pipelines.

#### Intern Project :

- macOS API Vision using Apple Vision (Thai/Eng Text Recognition, Face, Card Detection, Perspective Warp)
- Advanced camera preview implementations on iOS (AVCaptureSession) and Android (Camera2 API)
- ML Kit Digital Ink Recognition (image → vector strokes)
- Cross-platform Capacitor Plugin (OCR, Document Detection, Perspective Warp)
- Tesseract OCR integration on both iOS & Android with multi-model support and real-time processing

**Gained hands-on experience:** Building production-level mobile apps with modern frameworks, Implementing advanced camera systems on iOS (AVCaptureSession) & Android (Camera2 API), Developing macOS OCR & Vision API services (Thai/English OCR, Face/Card Detection, Perspective Warp), Integrating ML Kit Digital Ink Recognition and cross-platform OCR plugins (Capacitor, Tesseract), Debugging, optimizing performance, and working with real-time APIs & authentication flows.

#### SMARTSIGN - AI Detected Sign Language

Aug - Dec 2025

- **Role:** Full-Stack Developer & UI/UX Designer, Designed the end-to-end UI/UX and overall product flow, Built the frontend with real-time video streaming and responsive UI, Developed the backend integrating AI endpoints and ensuring stable, low-latency API communication, Fixed production issues including HTTPS camera access and real-time data handling.
- **Gained Experience:** Cross-team collaboration (UI/UX, frontend, backend, AI), Improved skills in UI/UX design, API integration, and building reliable full-stack features, Strengthened presentation and pitching through national-level competitions.

#### MindcareAI, Mental Health Consultation App

Nov 2025 - Present

- **Role:** Software Engineer, Developed the iOS app using Swift/SwiftUI and implemented a scalable backend using a microservices architecture (Gin, gRPC, MongoDB, Redis). Designed secure API communication via an API Gateway and delivered real-time functionality through WebSocket services.
- **Gained hands-on experience:** SwiftUI/SwiftData mobile development, backend API design, microservices communication, Docker-based deployments, CI/CD automation, Kubernetes orchestration, Grafana system monitoring, and multi-service integration workflows.

### AWARDS & COMPETITIONS

- **NSC 2025 – Eastern Regional Winner**  
Smart Sign Project: Health, Disability & Elderly Category (Qualified for National Final Round)
- **EEC Hackathon 2025 – National Level**  
Smart Sign Project: Top Star for Health and Well-being & Presentation Award
- **Innovation Award 2025 – Kasetsart University Kamphaeng Saen Campus**  
Smart Sign Project: First Prize Winner, Undergraduate Level Category

### EDUCATION

Digital Science and Technology, Faculty of Science Kasetsart University Sriracha Campus

GPAX: 3.37

2023 – Present