



CHAN EKMONGKOL

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SUMMARY

3rd-year Software Engineering student and AI Developer specializing in full-stack web applications (Next.js + Python) and intelligent systems. Proven track record building real-world AI tools — from inventory management to computer vision — with measurable business impact.

WORK EXPERIENCE

Kirirom Institute of Technology - Internship

Jan 2025 – Present

- Built a full-stack ML data preprocessing tool (Next.js + Python) used by 50+ students, reducing manual preprocessing time by 80%.
- Developed an AI automation platform with document summarization and Embedding Similarity analysis to help lecturers evaluate student submissions.

Freelance Full-Stack AI Developer

Dec 2025 – Present

- Delivered AI-powered business tools, including an Inventory Management System (3,000+ items) and a POS system for a construction materials shop.
- Built AI search agents that automated complex data analysis, eliminating 15 hours/week of manual work across 3 employee roles.

PROJECTS

AI Search Agent & Business Automation

- Developed AI automation scripts eliminating 20 hrs/week of manual work across 3 employee roles through intelligent data analysis pipelines.

Computer Vision Drone Control System

- Built a web-based with nextjs to control ESP32 + Python system that translates 4 hand gestures into real-time drone flight commands with sub-second latency.

EDUCATION

Bachelor's Degree in Software Engineering

Feb 2024- now

Kirirom Institute of Technology (KIT), Cambodia

- 3rd Year | GPA: 3.2 / 4.0 (Score: 88)

High School

2017 - 2023

Preah Monivong High School, Battambang, Cambodia

- Led a robotics team in 17th ANNUAL CAMBODIA STEM FESTIVAL and Robotics Cambodia 2023
- Developed an autonomous robot for School showcases Event
- Selected as an Outstanding Physics Student and competed in the Provincial Physics Exam

ADDITIONAL INFORMATION

- Languages:** Khmer — Native English — Professional Working Proficiency Japanese — Beginner
- Awards/Activities:** Actively participated in the "STEM" program, Joining Unipreneur season 3 Competition