

LAY SOPANHA

API DEVELOPER

Street 907, Khan Russey Keo, Sonkhat Toul Songke | panhalay69420@gmail.com

AI and Data Enthusiast with a knack for creating smart, impactful solutions. I enjoy tackling complex challenges and have built everything from AI-driven tools in Python to simulations in C++. With experience in backend development, data-driven projects, and Python-powered applications, I'm always eager to push my skills and dive into projects that make a difference.

AREA OF EXPERTISE

C++ Programming	Data Analysis	API
Python	Machine Learning	Researching/Learning

KEY ACHIEVEMENTS

- **Represented:** American Bright International School (ABI) in the National Math Competition in Grade 9.
- **Techo Digital Scholarship** Scholar awarded a full four-year scholarship at Cambodia Academy of Digital Technology(CADT).

PROFESSIONAL EXPERIENCE

Developed Machine Learning Model for AI Trip Planner, "TAM PLOV" Aug - November 2024

- Integrated APIs from TripAdvisor and HERE Places to gather data for AI model training.
- Scraped and processed data from Cambodian tourism websites, handling data cleaning, merging, and encoding for machine learning.
- Built and deployed model with scikit-learn and NLP, utilizing RESTful APIs to tailor recommendations based on user input. Deployed using Docker and Django for a scalable backend infrastructure.

Programming Instructor - Cambodia Academy of Digital Technology (CADT) Aug 2024 - Sep 2024

- Mentoring over 300 student in ITC, coding and English at Battambang.

Develop an Ecommerce Website Feb 2024 - April 2024

- Developed and implemented seller page functionality with full C.R.U.D operations, enhancing usability and data management.
- Leveraged PHP Laravel Framework to build a robust back-end system and designed a responsive front-end interface for seamless user interaction.

Programming Instructor - KHoding Hero Aug 2023 - Sep 2023

Taught programming (Scratch, C) and English to over 300 students in a one-month bootcamp.

EDUCATION

Bachelor of Computer Science

Cambodia Academy of Digital Technology

Expected Year of Graduation: 2026

- Ranked in the top 5 of the school during sophomore year

High school

American Bright International School (ABI)

- Represented: American Bright International School (ABI) in the National Math Competition in Grade 9.

ADDITIONAL INFORMATION

- **Languages:** Fluent in Khmer and English