

SOTHUN DARACHHAT

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Ou Bek K'om, Sen Sok, Phnom Penh

sothundarachhat.vercel.app



SUMMARY

- Motivated 4th-year Information Technology Engineering student and Software Engineer at the Council for the Development of Cambodia with hands-on experience in API development, frontend systems, and database design.
- Strong background in FastAPI, Nuxt UI, PostgreSQL, GitLab CI/CD, and Postman, with real-world experience building secure government platforms and bank integrations.
- Passionate about problem-solving, clean code, and continuously improving large-scale digital systems.

EXPERIENCE

Council for the Development of Cambodia (CDC)

Nov 2025 – Present

Software Engineer

Technologies: FastAPI, Nuxt UI, PostgreSQL, Postman, GitLab CI/CD

- Developed secure RESTful APIs for government service platforms
- Designed and optimized PostgreSQL database schemas and complex queries for financial and service workflows.
- Built and maintained frontend modules for internal and public systems.
- Integrated payment and service workflows with multiple banks
- Tested APIs using Postman collections and automated background jobs using Celery & Redis.
- Managed source control and deployments via GitLab CI/CD.
- Collaborated with senior engineers on UAT environments and system debugging.

TECHNICAL SKILLS

Programming Languages : C, C++, Java, Python, JavaScript, TypeScript, PHP

Frameworks & Libraries : FastAPI, Nuxt UI, React, Node.js, Express, Laravel, Tailwind CSS

Other : PostgreSQL, MongoDB, Postman, GitLab, CI/CD, Redis, RabbitMQ

EDUCATION

Royal University of Phnom Penh

B.A. in Information Technology Engineering

Expected Graduation, June 2026

Pannasastra University of Cambodia

English Diploma

Graduated, 2024

PROJECT

🕒 **BuildByDarachhat - C2C E-commerce Website**

Role : Full-stack Developer (Personal Project)

Demo : www.buildbydarachhat.social

Technologies : Laravel (PHP), React (TypeScript), Tailwind CSS

- Built a modern consumer-to-consumer platform with user, vendor, and admin roles
- Implemented MVC architecture and robust role-based access control
- Developed responsive UI with React and Tailwind CSS

🕒 **RuppCare – Doctor Appointment Booking Website**

Role : Team Lead & Backend Developer (Team of 2)

Demo : <https://rupp-care.vercel.app>

Technologies : Vite, ReactJS, Node.js, ExpressJS, MongoDB, Tailwind CSS

- Designed full-stack healthcare app for booking appointments
- Developed authentication for doctors and patients
- Built scheduling and management features for both roles

🕒 **TOS – B2C E-commerce website**

Role : Backend Developer (Team of 2)

Demo : online-clothing-store-gamma.vercel.app

Technologies : Vite, ReactJS, Node.js, ExpressJS, MongoDB, Tailwind CSS

- Developed a full-featured e-commerce platform for B2C clothing retail
- Included admin dashboard for product and order management
- Designed responsive and scalable UI for a smooth shopping experience

🕒 **Autonomous Snake Game Agent via Reinforcement Learning**

Role : Team Lead

Technologies : Python, Pytorch, PyGame

- Built AI agent using Q-learning and Deep Q-Network (DQN)
- Used neural networks for decision-making and trained performance
- Added training visualizations and modularized the code for flexibility

SOFT SKILLS

- Critical Thinking
- Team Collaboration
- Self-Learning
- Problem Solving
- Time Management

LANGUAGES

- Khmer
- English

OTHER ACADEMIC PROJECTS

- Graph Visualizer (Python): Distance mapping from Phnom Penh to provinces
- Binary Tree & Hashing Implementations in Python
- Database Normalization: Hotel Booking Receipt System
- SolidWorks Projects: Guest Room Table, Garden Bench
- Phone Management System in Java
- Library Management System using JAVA, Netbean and mysql
- Weather Flutter App that displays real-time weather data using OpenWeatherMap API