



SETH THAVAREAK HOUR

SOFTWARE ENGINEER

PROFILE

Software Engineering Student with skills in Full-Stack development, cloud deployment, and IoT systems. Skilled in building RESTful APIs, deploying scalable applications, and integrating hardware with web platforms. Open for receptive to constructive feedback, with strong intention to learn and contributing as a team.

EXPERIENCE

COMPETITON

UniPreneur Camp 2nd RunnerUp (January 2024)

- Contributed to the design of a software solution focused on improving efficiency and service accuracy in waste collection operations. Demonstrated teamwork, problem-solving, and solution-oriented thinking in a competitive environment.

PROJECT

IoT Delivery Robot, IoT and Backend Developer (June-September 2024)

- Developed on a prototype that combined embedded systems of Arduino UNO using C++ with IoT equipment (Servo Motor, Bread Board, Cable Management) and a mobile application for remote control and basic automation.
- Assembled The based of the Rover, control workflows, while working closely with team members.

Job Portal Web Application, Project Leader (February-June 2025)

- Led both project management and hands-on technical development for a full-stack web platform with Next.js and Supabase, driving the project from early planning and system design through development, testing, and deployment.
- Responsible of key technical decisions, including architecture and implementation approaches, while coordinating tasks, timelines, and collaboration across developers and designers.

AI Drinks Recipe Generator, Backend Developer (June-September 2025)

- Architected the backend using Next.js and managed authentication with SupabaseAuth and database operations via Supabase and Set filter for Gemini API for categorized output generation
- Designed and implemented database tables and CRUD operations in Supabase to support user-saved recipes, sharing functionality,

Internal Student Evaluation System, DevOps (June-September 2025)

- Migrated system to a new server environment, improving deployment reliability and maintainability of backup data. Implemented a containerized deployment workflow using Docker and utilized GitLab for version control, streamlining code integration and deployment processes.

Laundry Scheduling System, Maintenance and Backend Developer (August 2023- Present)

- Managed API requests of a scheduling system to manage machine usage by day and a website dashboard (using Next.js/Express.js) to display the real-time availability and status of each washer and dryer. This solution included automating the sending of PIN codes for machine activation
- Conducted hands-on setup of all physical components, including Relays, Raspberry Pi, LCD displays, and QR code scanners, integrating them with the core web application
- Integrated the ABA Payway system to handle transactions, linking payment confirmation directly to the system's scheduling and additional PIN code generation workflow

Japan Internship Program, Developer and DX Promoter (October 2025-December)

- Led research and evaluation of hardware devices for seamless integration with a web application, focusing on usability, reliability, and real-world deployment feasibility.
- Maintained and backup the Supabase database, also providing technical support for an ongoing client project focused on designing Japanese cultural cutlery.

Philippines Internship Program, Property Management (December 2025-January 2026)

- Conducted research on contract-to-own property models in the Philippines, analyzing payment structures, legal frameworks, and buyer protections under local real estate laws
- Evaluated regulatory requirements and business structures for foreign investors to legally engage in real estate ownership and property management in the Philippines.

QA-Testcase Generator, FullStack Developer (February 2026-May 2026)

- A web app that helps QA teams in two ways: upload a test case document to get it analyzed, or connect a public GitHub repo to automatically generate test documentation from the code.
- Applied Retrieval-Augmented Generation (RAG) to give the LLM memory of past inputs and outputs, enabling smarter and more contextual responses

CONTACT

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EDUCATION

2019-2022

HIGH SCHOOL DIPLOMA

USA International School

2023-Present 4th Year

BACHELOR SOFTWARE ENGINEERING

Kirirom Institute of technology

SOFT SKILLS

- Leadership
- Project Management
- Collaboration

TECHNICAL SKILLS

- Backend: Node.js, Express.js, Flask, REST API
- Frontend / Full-Stack: Next.js
- Databases: PostgreSQL, MongoDB, Supabase, NeonDB
- DevOps & Deployment: Docker, Vercel
- IoT / Embedded System : Raspberry Pi, Arduino UNO, Relays
- AI / LLMs: OpenAI API, Gemini API
- Version Control: Github, Gitlab

LANGUAGES

- Khmer - Native
- English - Fluent
- Japanese - Learning