Pasith (Trin) Changkasiri

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Medford, Massachusetts

Third-year Computer Science student keen to apply and further develop technical expertise in Software Engineering, expanding from a strong foundation in backend development and hands-on experience in real-world projects. Eager to learn and contribute to innovative software solutions as a collaborative team member.

EDUCATION

Tufts University   **Medford, Massachusetts**
Pursuing a Bachelors of Science   *Expected Graduation, May 2026*
- o   **Major: Computer Science**
- o   **GPA:** 3.6, *Dean's List*
- o   **Related Coursework:** Data Structures, Machine Structure and Assembly Language Programming, Programming Languages, Web Programming, Discrete Mathematics, Object-Oriented Programming for Graphical User Interfaces, Linear Algebra.

SKILLS

Programming: C++ [proficient], C [proficient], Typescript [proficient], Javascript [proficient], Python, HTML/CSS, SQL, Java, PHP
Tools: Linux, GitHub, Postman, Postico, Playwright, DBeaver, PyTorch, MATLAB, React, Node.js, Next.js, MongoDB
Languages: English (Native), Thai (Native)

EXPERIENCE

Taobin - Forth Corporation   **Bangkok, Thailand**
Software Engineer Intern (Backend)   *June 2024 – Aug 2024*
- ● Worked primarily on Vendii, Taobin's machine sales and inventory monitoring application.
- ● Engineered a Next.js-based vending machine emulator in TypeScript, **designed to replicate the functionality of one of 5,000 machines nation-wide.** Streamlined testing processes for Taobin's engineering team and significantly reduced manual input and potential errors.
- ● Optimized Vendii web-app material movement downloads through code refactoring and SQL query enhancement, resulting in **70% faster query performance**.

PROJECTS

BuildSync   **Stanford, CA**
Developer   *September 2024 – Present*
- ● Collaborative AI-powered Text-to-BIM design platform.
- ● Stanford-based **AEC start-up and $150k Sunbelt Startup Competition Winner**, working closely with founders to develop and refine product's Next.js and Three.js based user interface.
- ● Fine-tuning AI BIM generation model, increasing precision by refactoring and debugging IFC creation process.

Smart Vending Machine Emulator for Taobin (Professional)   **Bangkok, Thailand**
Developer   *July 2024 – Aug 2024*
- ● Engineered a machine emulator using Next.js and TypeScript, capable of replicating 8 distinct message types for **comprehensive payload and machine communication testing**
- ● Designed flexible message routing architecture, enabling seamless data transmission to local environments and Vendii's development database

- Crafted a robust, user-centric system tailored for Taobin's software engineering team, featuring Keycloak authentication for secure access and frictionless integration with existing workflows
- Implemented dynamic, country-specific data retrieval from Taobin's API, allowing customization of organization, machine, slot, and ingredient options to generate complex payloads with over 105 unique fields
- Streamlined testing processes for over 5,000 machines nation-wide by eliminating manual, field-by-field payload construction, significantly improving efficiency and reducing human error

E2E Testing for Taobin (Professional)   **Bangkok, Thailand**
Developer   *Jun 2024 – July 2024*
- Implemented comprehensive end-to-end testing for Vendii, Taobin's machine sales and inventory monitoring application.
- Developed tests in Typescript, utilizing the Playwright framework, to interact with all modules and components, ensuring seamless data flow for all user tasks.
- **Integrated the testing program into the application's workflow**, automatically triggering tests for all production pushes and feature updates.

ACTIVITIES AND LEADERSHIP

Thai Students' Association   **Medford, Massachusetts**
President, previous Social Media Manager   *Aug 2022 – Current*
- Leader of the organization representing Tufts' Thai Society, hosting a variety of regular cultural events and E-board meetings.
- Coordinated club events, managed social media page, and delegated tasks to E-Board members.