# Pasith (Trin) Changkasiri

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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

**Brooks School**                                                                         **North Andover, Massachusetts**
*Cum Laude Society Member*                                                                 *Graduated, June 2022*
- o   **GPA:** 4.0, *Summa Cum Laude*

**Tufts University**                                                                       **Medford, Massachusetts**
*Current Sophomore, pursuing a B.S. in Computer Science*                                    *Expected Graduation, May 2026*
- o   **Major: Computer Science**
- o   **GPA:** 3.55, *Dean's List*
- o   **Related Coursework:** Introduction to Computer Science, Discrete Mathematics, Data Structures, Machine Structure and Assembly Language Programming, Software Engineering, Programming Languages, Database Systems, Linear Algebra.

## 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, featuring 8 distinct message types, flexible routing to local and development environments, Keycloak authentication, and dynamic API integration for complex payload generation, streamlining testing processes for Taobin's engineering team and significantly reducing manual input and potential errors.
- Implemented end-to-end (E2E) testing for Vendii using Typescript and Playwright, ensuring seamless data flow across all modules and automating tests for production pushes and feature updates.
- Optimized Vendii web-app material movement downloads through code refactoring and SQL query enhancement, leveraging Postman for comprehensive testing. Streamlined the CSV generation process, resulting in improved performance and efficiency of data retrieval and export operations.

## PROJECTS

**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 via HTTP POST requests
- 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 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 (E2E) 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.

**Portfolio Website (pasithchangkasiri.com) (Personal)**                         **Medford, Massachusetts**
*Developer*                                                                                    *Dec 2023 – Jan 2024*
- Built an interactive portfolio website from scratch using HTML and CSS code.
- Partitioned modules displaying education, skills, work experience and interests.

## 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.

## SKILLS

**Programming:** C++ [proficient], C [proficient] , Typescript, HTML/CSS, SQL, Python, Javascript
**Tools:** GitHub, Postman, Postico, Playwright, DBeaver