

Shoon Lai Paing

Computer Science and Engineering at MIT

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EDUCATION

Massachusetts Institute of Technology

Expected June 2029

B.S. in Computer Science and Engineering · Cambridge, MA · GPA: 5.0 / 5.0

Coursework: Discrete Mathematics, Fundamentals of Programming, Multivariable Calculus

Durham Technical Community College

May 2026

Durham, NC · GPA: 4.0 / 4.0

Coursework: Java Programming, Data Structures and Algorithms, Linear Algebra

TECHNICAL PROJECTS

iOS Meditation App

Jan – Mar 2026

- Built an iOS meditation app in Swift and UIKit with guided sessions for beginners and experienced users.
- Synced a custom-length countdown Timer with AVFoundation audio; scheduled daily reminders via UserNotifications.

N-Dimensional Minesweeper

Fall 2026

- Built N-dimensional Minesweeper in Python using recursion over nested lists and a depth-first flood-fill reveal.

Image Processing & Seam Carving

September 2026

- Built box-blur, unsharp-mask, and Sobel edge filters on 2D cross-correlation with three boundary modes.
- In progress: seam carving for content-aware resizing, using a dynamic-programming energy map.

Snekoban Puzzle Solver

Fall 2026

- Modeled game state as sets of coordinate tuples for constant-time collision checks and non-mutating moves.
- Wrote a breadth-first search solver over hashable frozenset states that returns the shortest move sequence.

Farm Game

Fall 2024

- Developed a playable farming game while learning Python, implementing its core gameplay features.

EXPERIENCE & LEADERSHIP

The Mindful Haven

Aug 2025 – May 2026

Meditation club · Durham Tech

Founder & President

- Chartered and led a meditation club focused on mindfulness, stress relief, and community well-being.
- Organized and ran general meetings and guided meditation sessions.

Durham Tech Student Government Association

Aug 2025 – May 2026

Treasurer & Student Ambassador

- Prepared and presented monthly reports on budgets, expenditures, and financial status.
- Managed budget requests from student clubs and tracked expenditures for campus-wide events.
- Helped plan and run campus events and activities, including campus tours.
- Led a Scholarship & Financial Aid Information Session with the Durham Tech Foundation and Financial Aid Office.

Chate The Hook

2024 – Present

Non-profit educational organization · Myanmar · chatethehook.com

Content Writer

- Write articles on international education and scholarships, and create content for organizational announcements.
- Collaborate with the Technology team to publish articles and accessible educational resources online.

Transfer Advisor

- Guide prospective transfer students through the college application process.
- Review and proofread application essays for clarity, organization, and grammar.

SKILLS

Programming Python, Java, Swift, UIKit

Languages Burmese, English, Spanish

AWARDS & ACCOMPLISHMENTS

Myanmar Matriculation Examination All distinctions; 1st in Maubin and 4th in Ayeyarwady Region.

2019 – 2020

Mathematical Olympiad Regional 1st place (2018–2019) and 3rd place (2019–2020).

2018 – 2020