Theepakorn Phayonrat

B.Eng in Software Engineering Student @ KMITL

PERSONAL DETAILS

Address	Bangkok, Thailand
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Language	Thai, English
Github	https://github.com/Pottarr
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TECHNICAL SKILLS

Languages

- Rust
- Python
- C/C++
- ARM Assembly

Dev Tools

- Neovim
- Git
- Latex
- Linux

EXPERIENCES

Teaching Assistant (Elementary System Programming) Jul/2025 - Present
KMITL

- Lecturer in Pre-Session for new 1st year students during Summer 2025
  Topics:
  - Rust Basic Syntax and Basic Rules of Ownership
  - Struct, Enum and Impl
  - Some Standard Library features
- On-Site Lab Teaching Assistant (Rust)
- Lecturer in Final Exam Preparation Session during Semester 1/2025
  Topics:
  - Trait
  - Iterator
  - Closure
  - Thread Programming

Teaching Assistant (Computer Programming) Sep/2025 - Nov/2025
KMITL

- On-Site Lab Teaching Assistant (Python)

Teaching Assistant (Object Oriented Programming) Nov/2025 - Present
KMITL

- On-Site Lab Teaching Assistant (C++)

ACADEMIC AND PERSONAL PROJECTS

Academic Projects My best of 1st Year

RUSH - Rust Shell Terminal Aug/2024 - Nov/2024

Elementary System Programming (Rust)

A Terminal Shell with its own GUI written in Rust
GitHub: `https://github.com/Pottarr/RUSH-Rust-Shell-Terminal`
Summary:

- Developed a GUI-based terminal shell with POSIX-like commands.
- Implemented history cache, piping and redirecting into file for the shell.

Academic Projects My best of 2nd Year

8 Bit CPU Simulator Sep/2025 - Nov/2025

Computer Architecture and Organization

A 8 Bit CPU Simulation made in Hneemann's Digital
GitHub: `https://github.com/Pottarr/8Bit-CPU`
Summary:

- Built a simple CPU simulation with 5 stages of pipeline.
- Developed an assembler for the CPU ISA written in Python.

Personal Projects My favorite project currently working on

I ASSUME CPU Nov/2025 - Present

Assembly and C

Personal project to simulate a CPU in Hneemann's Digital to sequel of the 8 Bit CPU project
GitHub: `https://github.com/Pottarr/I-ASSUME-CPU`
Goals:

- To simulate a working CPU with its own set of instructions.
- To create a compiler and assembler for the languages (ASSUME languages) written in C.

EDUCATION

SMTP Class 2021 - 2023

Triam Udom Suksa Pattanakarn School

GPA: 3.88

B.Eng. Software Engineering 2024 - Present

King Mongkut's Institute of Technology of Ladkrabang

GPA: 3.02
Relevant Coursework:

- Computer Programming
- Elementary System Programming
- Computer Architecture ans Organization
- Data Structures and Algorithms
- Web Programming