

Patsakorn Boonkerd

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EDUCATION

Mahidol University International College

Bachelor of Science in Computer Science, Minor in Japanese

Nakhon Pathom, Thailand

Sep. 2019 – Apr. 2024 (Expected)

PROJECTS

Rust Chip8 ([source](#)) | *Rust, winit, cpal, pixels*

- Developed an interpreter for Chip-8 programming language
- Used low level crates such as winit and cpal
- Implemented all opcodes according to the original specification
- Utilized multithreading to get accurate CPU cycle timing

Novel Reader ([source](#)) | *Python, Flask, Jinja, MySQL*

- Developed a full-stack content management system web application for novel with 2 other people
- Design and implemented the schema for the web app
- Worked on both frontend and backend
- Implemented an account system completes with bookmarks for each user

Travel Planner | *Java, Spring MVC, JPA, Lombok, REST APIs*

- Developed a full-stack travel planner web application with 3 other people
- Used Java Persistence API to create database
- Utilized Lombok annotations to avoid boilerplate codes
- Implemented REST APIs using Spring MVC

IC Shell ([source](#)) | *C*

- Developed a shell program using C
- Utilized parallelism to execute background and foreground jobs
- Implemented most basic features such as redirection, scripting, and etc.

Flood fill ([source](#)) | *Python, Matplotlib, NumPy*

- Implemented flood fill algorithm (aka. paint bucket tool in paint) using span filling method
- Used Matplotlib and NumPy to represent bitmap
- Implemented color tolerance by calculating the Euclidean distance between colors

TECHNICAL SKILLS

Languages: Java, Python, Rust, C, Scala, MySQL, HTML/CSS, JavaScript

Frameworks: Flask, SQLAlchemy, Spring, JPA, Bootstrap

Tools: Git, Docker, Unix, AWS(EC2), Digital Ocean

Libraries: pandas, NumPy, Matplotlib

LANGUAGES SKILLS

Thai: Native

English: C1 (IELTS 7.0)

English: B1