Patsakorn Boonkerd

fordpatsakorn@gmail.com | linkedin.com/in/patsakorn-boonkerd | github.com/fordkuppp

EDUCATION

Mahidol University International College   Nakhon Pathom, Thailand
Bachelor of Science in Computer Science, Minor in Japanese   *Sep. 2019 – Apr. 2024 (Expected)*

PROJECTS

Rust Chip8 (source) | *Rust, winit, cpal, pixels*
- Developed an intepretor 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, don't forget to add demo) | *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 paralellism 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