

Pongsakorn Rattanapan

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🌐 <https://min23asdw.github.io/>

I am interested in software engineering application in various fields. Personally, I like work that is challenging and creates an impact on people.

I like to learn new things and like work that uses knowledge in many fields and applies them together to make interesting projects. Which made me curious to see what I could achieve.

In terms of learning new things I have knowledge in Compiler so I can understand the working of code in various languages easily. From the principles of token control flow graph and code optimization.

EDUCATION

Bachelor of Engineering, Computer Engineering

- Chiang Mai University, (2020 - 2024)
- GPA 3.61
- First Class Honors

SKILLS

Languages

- Java
- C#
- GO
- Python
- Typescript
- SQL
- HTML/CSS/JS

Others

- Flutter (Dart)
- React typescript
- OpenCV
- NLP
- Compiler (OCaml)
- Docker
- Iot & Microcontroller
- Git
- OOP
- Functional
- Machine learning / AI

EXPERIENCE

Front End Developer at Namjai Development Team

June 2023 - Present

Namjai is a crowdfunding platform focused on children's development, managed by a charitable foundation.

I collaborated with a team as a front-end developer and UX/UI designer, utilizing React, Tailwind CSS, and MUI.

Startup Tech "WAANME" (React PWA)

Fail , 2020-2021

Sandbox: Entrepreneurial Ecosystem Development Program from Science & Technology Park (STeP)

Experience on Business plan and Lean Canvas , developing prototype and MVP

Teaching Assistant at Chiang Mai University

2022-2023

Assisted in the Seminar in Accounting for Non-IT Majors course and the Computational Intelligence for Robotics Majors course.

4 th place, Thailand 3rd Kibo Robot Hosted by JAXA and NSTDA

May 2022

Team (Lynx) : The 4th place on 2022 ([Link](#)) and 8th place on 2021 ([Link](#))

Collaborated with a team to program the robot "Astrobee" in Java for completing tasks in an ISS simulation, including image processing, handling robot errors, and planning robot routes.

PROJECTS

2in1 Smart Bin & Cleaner Robot

2020

Team project

Utilizing the Gogoboard microcontroller operates as both a trash bin and a cleaning robot.

CARIN – Single-Player Online Strategy Game

2021

Team project

Create an online strategy game for one player that simulates the battle between viruses and antibodies in the human body. The game was developed using Java Spring WebSocket and React TypeScript, and included a code parser and interpreter for antibodies.

Java - Multilayer Perceptron (MLP) from scratch

Dec 2022

Java OOP

Created Multilayer Perceptron with Matrix calculation Backpropagation to Predict and Classify.

Also implemented Genetic algorithm and Particle Swarm Optimization

Backpropagation ([Github](#)) , Genetic algorithm ([Github](#)), and Swarm optimization ([Github](#)).

Food Image Classification Model

2023

Created a Convolutional Neural Network (CNN) model for classifying types of food from images

Air Pollution Report and Photo Sharing App

April 2023

Team project

Worked with a team of five to develop a mobile application that displays air quality data.

I was responsible for developing a feature that allows to get GPS coordinates and get heat spot data from api NASA's FIRMS ([Github](#))

Smart Water Monitoring System

2023

Team project

Developed a smart home water usage monitoring system utilizing IoT technology for data collection and storage. The system incorporates a data analysis web application that presents detailed reports and insights through a user-friendly dashboard.

Compiler - (.CPE) custom language functional

2023-2024

Team project

Worked with a team of three to develop a .cpe (functional) language with OCaml-based compiler to parse token and make AST and Understand Lambda calculus

CapSnap - Capstone Project

2023-2024

Team project

Flutter-based android application for product browsing, checkout, and real-time and has feature like camera streaming that streaming to a self-trained AI classification server in real time

C# – Basic RESTful API .NET Framework

2024

Learn and build in an .NET Framework for all CRUD with data validations for villas endpoints that have swagger API Document and connect to a SQL database.