TREEPAECH TREECHAN

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SUMMARY

A recent Computer Engineering graduate from Khon Kaen University with internship experience at PlaySmart IoT and Systems. Eager to apply academic knowledge, develop programming skills, and continuously learn about the industry. I am committed to adding value, growing with the company, and acquiring new skills through hard work and dedication.

WORK EXPERIENCE

Container Network Interface (CNI) study and testing, Senior Project — June 2023 - March 2024

- In this project, we were interested in testing the performance of three types of CNIs: Calico, Flannel, and Cilium.
- CNI performance testing was performed with a physically accessible device, a Raspberry Pi 4 and software simulating the operation of real computers on a server machine.
- We measured the performance of CNIs by deploying the Iperf3 container to various nodes within our group, with different types of CNIs in operation. Then, we instructed the Iperf3 clients to send data to the Iperf3 server and recorded the results in a text file.

Home Loan Simulation Web Application,Cloud Applications and Networking Project — November 2023 - March 2024

- Develop an API using Flask to perform calculations and display the year, month, and payment amount for each month.
- Deploy the API and database using Docker with Docker Compose, allowing the Front End to utilize them.

Garbage Classification Using Ai, Augmented Intelligence Project — June - October 2023

- Develop an AI model that can classify waste into four types: 1. Biodegradable waste, 2. Recyclable waste, 3. General waste, 4. Hazardous waste.
- Develop a website for uploading images to predict the type of waste. The prediction can be made from a camera or by uploading an image file.

Internship (Programmer) , PlaySmart IoT and Systems Company — April - June 2023

- Developed a website to display IoT device data and store it in a database.
- Assist in training on the design and installation of IoT control systems.
- Test, improve, and correct the code examples in the book 'Developing IoT on ESP32 Microcontroller with MicroPython'

Health Manage Calendar (Java), Advanced Computer Programming Project   **December 2020 - May 2021**

- Develop a calendar display that shows the current date and today's tasks. These tasks can be viewed by clicking the "Today" button. The "Events" button will display all saved tasks.
- Develop a system that calculates BMI, explains health status, and provides weekly time management recommendations, including how to adjust BMI. Additionally, the system will suggest activity days based on the user's preferences.
- Develop a system that allows adding activities and storing them in a text file. When the scheduled time arrives, these activities will be displayed in today's to-do list.

EDUCATION

Bachelor of Engineering in Computer Engineering   **July 2020 - April 2024**
Khon Kaen University │ Khon Kaen
- GPA: 3.43 Second Class Honors

Science-Mathematics   **April 2017 - March 2020**
Phonthong Pattana Wittaya School │ Roi Et
- GPA: 3.90

ADDITIONAL INFORMATION

HARD SKILLS

- **Front-end Skills:** HTML (Intermediate), CSS (Intermediate), JavaScript (Intermediate), React (Intermediate)
- **Back-end Skills:** Python (Intermediate), C (Beginner), C# (Beginner), Java (Intermediate), Shell Script (Beginner)
- **Tools:** API, Docker, Docker Compose, Kubernetes, Postman, MySQL

SOFT SKILLS

- Familiar with using Microsoft Visual Studio Code and GitHub for software development.
- Possess strong analytical thinking and reliable data analysis skills.
- Capable of working systematically and thriving under pressure, aiming to deliver tasks on time.
- Have the ability to learn new things rapidly and possess enthusiasm for skill development to continue growing.

LANGUAGES

- English (Fair)
- Thai (Native)