

Thitichaya Muenthaisong

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Professional Summary

Eager Geography graduate proficient in Python, HTML5, CSS, and SQL, with a driven approach. GISTDA internship involved TMD API data extraction, RESTful web services, and creating a user-friendly Wildfire App. Skilled in Bootstrap, Node.js, Leaflet JS, Flutter, and database management (MySQL, PostgreSQL). Actively engaged in workshops, demonstrating commitment to continuous learning and community involvement.

Education

Srinakharinwirot University

Bachelor of Science in Geography and Geoinformatics

Wattana, Bangkok

Aug 2019 – May 2023

Relevant Coursework: Programming for Geographer and Web-based Geographic Information System

Professional Experience

GISTDA

Internship

Lak Si, Bangkok

Jan 2023 – May 2023

- Extracted TMD API data in JSON format using Python, integrating real-time weather data into GISTDA's geospatial applications.
- Developed RESTful web services with Node.js and Express.js for the Wildfire API, enhancing data accessibility in GISTDA's wildfire monitoring.
- Created a user-friendly Flutter-based Wildfire Application using Xcode, featuring map points, news updates, and an emergency call function to boost wildfire awareness and safety.
- Led web application development projects utilizing HTML, CSS, and JavaScript to provide users with access to wildfire data and maps, aiding informed decision-making and response strategies.

Skills & Interest

Programming Languages: Python (Numpy/Pandas), HTML5, CSS, JavaScript and Basic SQL

Web Development: Bootstrap, Node.js (basic) and Leaflet JS

Mobile App Development: Flutter

Development Tools: VS Code, Git (basic)

Database Management: MySQL, PostgreSQL

API Documentation: Postman

Soft Skills: Communication, Problem-Solving, Teamwork, Adaptability

Languages: Thai (Native), English (Fluent)

Interests: Outdoor Activities (Golf/Surfing), Comic Book Collecting, Podcasting, Fashion and Style

Extracurricular Activities & Volunteer Experience

- Workshop Vallaris Maps Platform: to enhance continuous learning and community participation. Explored the dynamic realm of open geospatial data, contributing to Vallaris Maps Platform development. Demonstrated commitment to staying informed and involved in geospatial advancements.
- Workshop Gistda Portal: Excelled in spatial data import for web apps at GISTDA Portal workshops, emphasizing the "search, create, and share" model. Skillfully utilized Web AppBuilder and Ready-to-Use apps for effective online dissemination.

Relevant Personal Projects

Harvest data form internet.

Feb 2023 / Tools: Python, PostgreSQL and TMD API

- Utilized Python's requests library to fetch data from the TMD API in JSON format.
- Designed a PostgreSQL database schema to store weather data efficiently.
- Used the psycopg2 library to establish a connection to the PostgreSQL database.
- Developed a data ingestion pipeline to transform and load the JSON data into the database.

Wildfire Web Services

Mar 2023 / Tools: Node.js, Express.js and Gistda Wildfire API

- Developed RESTful web services using Node.js and Express.js for GISTDA's Wildfire API.
- Significantly improved data accessibility and utilization in the wildfire monitoring system.
- Enhanced efficiency in managing and analyzing wildfire-related information.

Wildfire Mobile Application

Apr 2023 / Tools: Flutter, Xcode

- Developed a user-friendly Wildfire Application using Flutter and Xcode.
- Integrated features such as wildfire map points, real-time news updates, and an emergency call function.
- Aimed at enhancing wildfire awareness and safety through intuitive and accessible mobile technology.

Thitichaya Resume Website

Nov 2023 / Tools: HTML, CSS, JavaScript, Bootstrap and Git

Link: <https://thitichayamts.github.io/Thitichaya/>

- Responsive resume website using HTML, CSS, Bootstrap, and JavaScript. Utilized Git for version control, deployed on GitHub Pages..
- Responsive design, interactive features, JavaScript validation, and collaborative Git workflow.
- Dynamic online portfolio demonstrating proficiency in web development, deployment, and version control