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   **Wattana, Bangkok**
Bachelor of Science in Geography and Geoinformatics   Aug 2019 – May 2023
Relevant Coursework: Programming for Geographer and Web-based Geographic Infomation System

Professional Experience

GISTDA   **Lak Si, Bangkok**
Internship   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 & Interests

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.