

Muhammad Sultan Raisyah

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<https://muhammad-sultan.vercel.app> (Portfolio Website)
South Jakarta, Indonesia



PROFILE

Computer Science fresh graduate from Universitas Lampung with internship experience at PetroChina International Jabung Ltd. Experienced in developing web-based solutions, including an Early Warning System for temperature and humidity monitoring. Fast learner, highly adaptable, and collaborative in team environments, with a strong interest in modern web development.

CAREER MAIN ROLE

As a Web Developer, I specialize in building interactive and responsive front-end interfaces using frameworks such as React and Vue, styled with Tailwind CSS or Bootstrap. On the back-end, I have experience developing RESTful APIs and server-side logic using Express.js, as well as building scalable web applications with PHP and CodeIgniter 4. My focus is on delivering clean, maintainable code, optimizing performance, and ensuring a seamless user experience across platforms. I thrive in collaborative environments and continuously seek to improve my technical skills in modern web technologies.

EDUCATION

Lampung University

Bachelor of Computer Science (S.Kom) – 2025

- **GPA:** 3.63
- **Specialized Courses:** Software Engineering, Interaction Systems, Multimedia, Web Programming, Industry Case Study
- **Thesis:** Developed a Smart Farming using Internet of Things project assigned by a lecturer, creating a rat repeller device using ESP32-CAM, PIR Sensor, and buzzer to enhance agricultural protection.

EXPERIENCE

PetroChina International Jabung Ltd.

IT Support and Development Internship - 2025

- Facilitated communication regarding technological issues and reported malfunctions to the IT division.
- Assisted in assembling fiber optic cables.
- Contributed to the development of the Early Warning System to detect temperature and humidity using ESP8266 and DHT11 sensors.
- Ensured data collected was sent to a database and displayed on a website I developed, enhancing monitoring capabilities.

PROJECTS

Personal Web Portofolio V2

React (TypeScript), Tailwind CSS - 2025

- Rebuilt personal portfolio with React + TypeScript for better scalability.
- Implemented responsive and modern UI using Tailwind CSS.
- Focused on performance optimization and clean component structure.

Personal Web Portofolio V1

Vue, Tailwind CSS - 2025

- Created first version of personal portfolio with Vue.
- Designed a clean and responsive layout using Tailwind CSS.
- Showcases selected works, skills, and educational background.

Early Warning System Vue (EWSV)

Vue, Express.js, Supabase, Tailwind CSS | Personal Project - 2025

- Developed a modern web-based Early Warning System (EWS Vue) using Vue.js, Express.js, and Supabase.
- Designed a clean, responsive, and modern UI using Tailwind CSS to improve user experience and visual consistency.

IoT-Based Rat Repeller

ESP32-CAM, PIR Sensor, Buzzer, WhatsApp API | Thesis Project - 2024

- Designed a smart IoT device to repel rodents using ultrasonic sound.
- Detected motion with PIR sensor and triggered ultrasonic buzzer.
- Utilized ESP32-CAM for visual monitoring.

Early Warning System (EWS)

CodeIgniter4, Bootstrap, NodeRed | Internship Project - 2023

- Designed an intuitive UI/UX using Figma and implemented it with HTML, CSS, and Bootstrap.
- Developed the system’s front-end and back-end using JavaScript for interactivity and CodeIgniter4.
- Integrated ESP8266 and DHT11 sensors to monitor server room temperature and humidity in real-time.
- Implemented an alert mechanism that triggers a warning if temperature exceeds 30°C or humidity surpasses 80%, helping IT staff prevent overheating issues.

SKILLS

Language: English, Indonesian.

Hard Skills: Front-End Development (HTML, CSS, JavaScript, TypeScript, React, NextJS, and Vue), Back-End Development (PHP, CodeIgniter, Laravel), Database Management (MySQL), User Interface Design (Figma), Version Control (Git, GitHub), Internet of Things (Embedded Systems and Arduino IDE) Office Tools (Microsoft Excel, Microsoft Word, Microsoft PowerPoint).

Soft Skills: Creativity and Innovation, Communication Skills, Team Collaboration, Problem-Solving Abilities, Critical Thinking, Time Management, Adaptability and Flexibility, Attention to Detail.