Miftah Rizky Alamsyah

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ABOUT ME

I am a 5th semester Automation Engineering student with hands-on experience in programming and industrial informatics technology. I have contributed as IT support in various organizational events, which has honed my communication skills in various situations. I am excited to apply and develop my technical skills in the field of industrial informatics and automation systems.

EDUCATION

Politeknik Manufaktur Bandung (Polman Bandung) Bachelor of Engineering in Automation Engineering
Study Program: Industrial Informatics Engineering Technology
August 2023 – Present
- Currently in 5th semester
- GPA 3.77/4
- Relevant Coursework: NoSQL Databases, Data Structures, PLC, Control Systems, Data Communication (IoT), Microcontrollers, Data Acquisition, OOP, Web Programming, Networking, Basic Intelligent Systems, Digital Security Analysis.

SKILLS

- **Programming Languages:**
  Python (Pandas, NumPy), JavaScript (React/Next.js), PHP, SQL.
- **Frameworks & Tools:**
  Microsoft Office, Docker, Flask/FastAPI, Tailwind CSS, Git, Arduino IDE.
- **Concepts:**
  REST API, Microservices Architecture, Statistical Data Analysis, Data Visualization.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Automation Engineering (HIMAMO)
Schedule Coordinator (Timeliner) | August 2024 – Present
- Actively tracked the progress of cross-divisional projects, controlled program schedules, and facilitated communication to address potential delays or conflicts.

Komisi Pemilihan Raya at Polman Bandung
Vice chairman of it division (IT Division) | November 2024 – February 2025
- Responsible for the preparation and management of IT systems, as well as ensuring technical functionality during the event.

FUSE National Competition at Polman Bandung
vice chairman of it division (IT Division) | November 2024 – November 2025
- Coordinate IT setup and monitor system performance to ensure technical operations during the event.

ACADEMIC PROJECTS

IoT-Based Smart Roof Control System

- Developed an automatic roof control system using the ESP8266 microcontroller. Integrated weather-based automation by consuming OpenWeather API data and built a mobile application using Kodular for remote monitoring and manual override.

Normify – Statistical Normality Test (Web-Based)

(Tech Stack: Next.js, Python, Docker, Fast API, Tailwind CSS)

- Engineered a statistical analysis tool to perform normality tests using the Straight Line Method, bridging complex mathematical logic with a user-friendly interface.
- Developed a decoupled architecture using Next.js for the frontend and a Python-based backend API to handle heavy statistical computations (Data Engineering context).
- Implemented Docker containerization for both frontend and backend services to ensure consistent deployment environments and scalability.
- Designed interactive data visualizations to present statistical results, enhancing data interpretability for users.

Expert System for Selecting Plastic Material Types

(Tech Stack: PHP, Python, Docker, Flask API, Tailwind CSS)

- Built a decision-support system for selecting plastic materials for car dashboards based on technical parameters and environmental constraints.
- Integrated a PHP-based frontend with a Python backend, enabling seamless communication between the user interface and the core expert logic engine.
- Utilized mpdf library to generate dynamic, downloadable PDF reports based on user inputs and system recommendations.
- Optimized database schema in MySQL to efficiently store material properties and rule sets for the inference engine.

UI/UX Design Project – Kelana Camping Gear Rental App

- Designed the user interface and user experience for Kelana, a mobile application for renting camping equipment, based on insights gathered from surveys and user interviews. Focused on usability, intuitive navigation, and responsive design to meet user needs.

CERTIFICATIONS

- **Udemy Ms Excel 2025 Complete Introduction to Excel** : (May 2025)
- **Introduction to Information Security** : (October 2024)
- **DQLab Data Science Funfamentals** : (July 2024)