

MIFTAH RIZKY ALAMSYAH

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SUMMARY

Sixth-semester Industrial Informatics Engineering student specializing in Data Engineering, IoT, and Software Development. Has practical experience in developing data pipelines, industrial automation systems, and end-to-end web applications. Focuses on technical solutions that can improve system efficiency through hardware and software integration.

PROJECT

ETL Optimization in Banking Data Warehouse | [Github](#)

- Designed and built a SQL Server-based Data Warehouse from scratch using Star Schema modeling, and developed automated ETL pipelines with Talend Open Studio to integrate data from multiple sources.
- Engineered parameterized T-SQL stored procedures to accelerate analysis and enable business users to retrieve real-time data summaries efficiently.

Normify – Statistical Normality Test | [Github](#)

- Developed a statistical web application for normality testing using the straight-line method, built with Next.js and FastAPI to deliver efficient data processing and user-friendly analysis workflows.
- Implemented Docker containerization for both frontend and backend services to ensure consistent deployment environments and scalability.

IoT-Based Smart Roof Control System | [Github](#)

- 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.

Expert System for Selecting Plastic Material Types | [Github](#)

- Developed an expert system to recommend suitable plastic materials for automotive dashboard and interior components by modeling domain knowledge into a rule-based decision system, improving material selection accuracy and decision efficiency.

SKILLS

Programming & Tools: Python, PostgreSQL, MySQL, Typescript, Next.js, Laravel, PHP, Docker, FastAPI, Trello, Flask, MongoDB, Git, Github, SQL Server Management Studio (SSMS).

Data Processing & Visualization: Pandas, Talend, Excel, PowerBI.

Soft skills: Communication, Problem Solving, Critical Thinking, Adaptability, Project Management, Time Management, Leadership, Flexibility and Agility.

EDUCATION

Industrial Informatics Engineering Technology

Politeknik Manufaktur Bandung, GPA 3.68/4.00

August 2023 - Present

CERTIFICATIONS & COURSES

- AWS Certified Cloud Practitioner, 2026 | [Link](#)
- AWS re/Start Graduate, 2026 | [Link](#)
- Astronomer Certification for Apache Airflow 3 Fundamentals, 2025 | [Link](#)
- The Complete Introduction to Excel, 2025 | [Link](#)
- Belajar Mengolah Data untuk Calon Data Engineer, 2025 | [Link](#)

Achievements

- 2nd Place Winner of the T-ArtS 3.0 Personal Website Competition, 2026 | [Link](#)
- Certificate of Appreciation Binus, 2025 | [Link](#)
- Certificate of Appreciation Paragon, 2024 | [Link](#)
- Certificate of Appreciation KPK, 2024 | [Link](#)
- Certificate of Appreciation Bappenas, 2024 | [Link](#)
- Certificate of Appreciation Jakarta, 2024 | [Link](#)
- Regional Level Participants of the Indonesian SAR Robot Contest Division, 2024 | [Link](#)
- Certificate of Recognition for Best GPA 2023 – 2024, 2024 | [Link](#)