

# Muhammad Emir Fadlyanto

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Portfolio: <https://portfolio-lowt.vercel.app/>

## SUMMARY

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Results-driven Frontend Developer with a strong foundation in Full-stack architectures (Next.js & Laravel) and IoT integration. Expert in building high-performance, accessible web applications with modern tech stacks like React 19 and Laravel 13. Experienced in refactoring legacy systems into Clean Architecture and automating deployments via Docker. Passionate about bridging the gap between complex hardware data and intuitive user interfaces.

## EDUCATION

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**Universitas Komputer Indonesia (September 2020 – May 2025)**  
Bachelor Degree in Informatics Engineering GPA 3.27/4.00

**Rosma Vocational School (July 2017 - June 2020)**  
Computer and Network Engineering

## EXPERIENCE

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**Balai Besar Standardisasi dan Pelayanan Jasa Industri Bahan dan Barang Teknik**  
Frontend Developer (December 2025 – Present)

- Developed SIGAP B4T, an integrated technical service management system digitizing 10 core service workflows for a government industrial agency.
- Built a modern high-fidelity frontend using Next.js 16 (React 19), TypeScript, Tailwind CSS 4, and Shaden UI, delivering responsive interfaces across 2 main panels (customer portal and admin dashboard).
- Integrated frontend with a Laravel 13 REST API, implementing real-time order monitoring, automated document management, and cross division notifications covering the full service lifecycle from online registration to remote job status tracking.
- Modeled system flows using UML (Use Case & Activity Diagrams) mapping interactions across 4 user roles: customers, service admins, lab technicians, and management.
- Streamlined development-to-production workflows by orchestrating a Dockerized environment, ensuring 100% environment consistency and reducing deployment time.
- Architected a migration from legacy monolithic frontend to Clean Architecture, achieving high decoupling of business logic and reducing technical debt by 40%.
- Delivered a unified customer self-service portal enabling clients to independently manage orders, submit requirement documents, across 10 service categories.
- Followed Agile/Prototype methodology, iterating features across 5 sprint cycles based on feedback from prior system users.

**PT. Siven Teknologi Informasi**  
ERP Consultant Intern (October 2025 – December 2025)

- Mapped and documented 20 system workflows to analyze module integration and data flows across ERP modules.
- Participated in 10 requirement gathering sessions, translating client operational needs into structured system configurations.
- Authored 12 pages of functional documentation and user guides, improving onboarding efficiency for end users.

**Budidaya Lele Sangkuriang**

Freelance IoT Engineer (May 2025 – July 2025)

- Architected and deployed a fullstack IoT monitoring system for aquaculture ponds using ESP32 + Laravel 9, handling 3–5 concurrent users in real-time.
- Wrote ESP32 firmware in C++ to collect temperature and pH sensor data and transmit readings to a REST API backend via HTTP.
- Developed a real-time web dashboard with live sensor charts and historical data logging, improving pond management visibility.
- Developed an end-to-end IoT ecosystem resulting in a 95% accuracy rate for real-time environmental monitoring.

**Direktorat Metrologi**

Web Developer Intern (June 2023 – December 2023)

- Designed UX flows, wireframes, and database architecture for the Cap Tanda Tera management system using Laravel 9.
- Provided technical support for 15 internal staff, resolving 15–20 user issues weekly related to web system access and functionality.
- Created comprehensive user documentation that reduced recurring support inquiries by 30%.

**PT AT Indonesia**

Data Entry Specialist Intern (January 2019 – April 2019)

- Entered and maintained daily production data in internal systems.
- Communicated with supervisors to resolve 20 data discrepancies monthly, preventing workflow disruptions.
- Developed structured documentation practices to enhance data accuracy, contributing to measurable improvements in record-keeping efficiency by 40%.

**ORGANIZATION EXPERIENCE**

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**FKMTIK UNIKOM**

Head of Information Technology Knowledge Division (October 2021 – November 2022)

- Lead and guide members to carry out their duties properly
- Conducted research on efforts to improve and develop the quality of student resources
- Developed and maintained the FKMTIK UNIKOM website.

**BEM UNIKOM**

Secretary of The Ministry of Youth and Sports (November 2023 – December 2024)

- Managed ministry administration, including the preparation of letters, activity proposals, and accountability reports.
- Collaborated with internal and external stakeholders to ensure activities met organizational goals.

**SKILLS**

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**Programming Languages:** PHP, JavaScript, TypeScript, C++ (ESP32/Embedded)

**Frameworks & Libraries:** Laravel, React.js, Next.js, WordPress, Tailwind CSS, Shadcn UI, Bootstrap CSS

**Databases:** MySQL, MongoDB, Supabase

**Tools & Platforms:** Git, GitHub, REST API, Tableau, Power BI, Microsoft Office, TeamViewer, AnyDesk, Docker, Docker Compose, Postman, Vercel, Grafana, Trello,

**Methodologies:** Agile/Scrum, Business Process Mapping, ERP Implementation Lifecycle, UAT, Functional Documentation

**Soft Skills:** Leadership, Critical Thinking, Problem Solving, Communication, Attention to Detail, Time Management

**Architecture & Design:** Clean Architecture, Client-Server Architecture, Containerization, UML (*Use Case & Activity Diagram*), ERD, MVC