Muhammad Emir Fadlyanto

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Linkedin Profile

Portfolio : https://muhammademir.my.id/

SUMMARY

Fullstack developer building REST API-driven web systems with Laravel, PHP, MySQL, Next.js, React.js,Vue.js and TypeScript. Built a technical service management system for a government industrial agency and an ESP32 based IoT monitoring dashboard, and documented ERP workflows. Experienced with Clean Architecture refactoring, Docker-based environments, and Agile workflows.

EDUCATION

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

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

EXPERIENCE

Balai Besar Standardisasi dan Pelayanan Jasa Industri Bahan dan Barang Teknik
Software Developer (December 2025 – September 2026)

- Developed SIGAP B4T, the Service Integration Information System of a government industrial agency, digitalizing 10 technical service workflows across customer and admin panels with end-to-end order management, document approval, real-time status tracking, and cross-division notifications.
- Built the customer and admin interfaces with Next.js, TypeScript, Tailwind CSS, and shadcn/ui on a Laravel 13 REST API, including multi-step service request forms with real-time validation and draft persistence to prevent data loss.
- Modeled system flows using Use Case & Activity Diagrams mapping interactions across 6 user roles and refined features over five Agile sprint cycles using prototyping and feedback from previous system users
- Containerized the development environment with Docker and Docker Compose for consistent setups, set up GitHub Actions for CI/CD, and deployed the system to a hosting environment.
- Migrated the legacy monolithic frontend to a Clean Architecture structure, separating business logic from UI components.
- Integrated the BNI E-Collection payment gateway to automate Virtual Account creation and bill payment synchronization, and implemented a background job queue for payment reconciliation, email reminders, Excel exports, and server-side PDF generation.
- Built an isolated authentication and Role-Based Access Control system for six user roles, integrating Google reCAPTCHA v3, Google Single Sign-On (SSO), and cookie-mirroring session management through a Backend-for-Frontend architecture.
- Implemented QR code tracking for test samples and documents, linking physical handling with digital status records in the laboratory.

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 and Laravel 9, supporting 3 - 5 concurrent users in real-time.
- Developed a real-time web dashboard featuring live sensor charts and historical data logging, increasing pond management visibility and enabling data-driven decisions for improved operational efficiency.
- Wrote ESP32 firmware in C++ that collects temperature and pH readings and sends them to a REST API backend over HTTP across 3 devices.

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%.

ORGANIZATION EXPERIENCE

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

- Led a team of 5 members and completed 2 projects on schedule.
- Implemented initiatives to improve student resources, benefiting 900 students.
- 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

Backend & Databases: PHP, Laravel, REST API, MySQL, MongoDB, Supabase. Ms Access
Frontend : Javascript, Typescript, React.js, Next.js, WordPress, Tailwind CSS, Shadcn UI, Vue.js, Inertia.js, Bootstrap CSS.
Embedded: C++ (ESP32/Embedded).
Tools & Platforms: Git, GitHub, 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, Backend-for-Frontend.
CI/CD Pipelines: Github Actions.