

Muhammad Arief Fadlan

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SUMMARY

Fullstack Developer with 3+ years of experience building dynamic and scalable applications. Skilled in TypeScript, React.js, Next.js, Express.js, and PostgreSQL. Experienced in creating responsive and high-performance user interfaces, designing RESTful APIs, and optimizing SQL queries. Adept at working in Agile environments. Focused on delivering efficient, reliable, and scalable applications.

PROFESSIONAL EXPERIENCE

Frontend Developer

PT Ragdalion Revolusi Industri – Cikarang, Indonesia

February 2025 – Present

- Developed a React project template with WCAG-compliant reusable components and shared utilities to enforce coding standard, ensure consistency, accelerate new project setup, and reduce bugs.
- Optimized rendering performance of a dynamic data table by implementing debouncing and isolating state updates, significantly reducing unnecessary re-renders and improving input responsiveness.
- Optimized application load times and bundle size using memoization, lazy loading, code splitting, manual chunking and replacing heavy libraries.

Web Developer

Universitas Sumatera Utara – Medan, Indonesia

April 2023 – January 2025

- Contributed to improving SEO and website traffic, positively impacting USU's digital performance and Webometrics ranking, leading to a Gold Medal in the Website Category at Anugerah Diktisaintek 2024.
- Developed 30+ responsive pages, ensuring consistent layouts and enhancing user experience.
- Developed an activity log to track all employee activities across units, improving operational transparency.
- Developed an official music section with audio playback and real-time lyric synchronization using LRC files.
- Optimized image assets and prioritized resources, leading to faster load times and higher Lighthouse Score.
- Optimized data fetching by caching API responses with React Query, achieving faster response times and reducing redundant requests.
- Migrated styling from Sass to Tailwind CSS, reducing development time and improving code consistency.
- Built a service to manage doctor data and generate schedules by polyclinic and specialization.
- Improved performance by optimizing SQL queries, led to faster data retrieval and reduced execution time.
- Delivered employee performance metrics via APIs, including annual performance, monthly and yearly heatmaps, and employee rankings for dashboard visualizations.
- Developed APIs to provide lecturers data, leveraging caching and cursor-based pagination to handle large datasets.

Programmer

Garuda Cyber Indonesia – Pekanbaru, Indonesia

August 2023 – December 2023

- Created integration tests to ensure API functionality and prevent potential failures.
- Developed a logging system to audit, record, and track user activities, improving operational transparency.
- Developed a dashboard to manage products, drivers, and files associated with the Garuda Kasir application.

ITLead Team Project Leader

ITFest USU – Medan, Indonesia

January 2023 – April 2023

- Introduced and implemented the Scrum framework for project execution.
- Monitored indexing and crawl issues using Google Search Console to maintain and improve site's visibility.
- Built backend services for authentication, event, competition, and payment verification, including email notifications to confirm user payments and proof submission.

EDUCATION

Universitas Sumatera Utara – Medan, Indonesia

Bachelor of Information Technology | GPA: 3.93/4.00

August 2020 – November 2024

- **Thesis:** Prediction of Solar Radiation Using Deep Autoregressive Method
- **Relevant Courses:** Web Programming, Data Architecture, Database Management System, Data Structure and Algorithms, Object-Oriented Programming, Server System Administrator

PROJECTS

SendTheSong ([Link](#))

A platform that lets users expressing untold stories and emotions through music. I develop responsive user interfaces, create message forms, and integrate messaging APIs.

Shinzou ([Github](#))

A flight-based ticket booking platform to manage flight schedules, reservations, and ticket transactions. I design the ERD and database schema, create API documentation, and develop flight search and booking features for both one-way and round-trip tickets.

Warehouse Inbound Management System ([Confidential](#))

A warehouse management system for track orders, update deliveries, and operational workflow management.

- Developed the complete end-to-end workflow, covering material ordering, processing, delivery, quality control, and warehouse operations.
- Implemented QR scanning functionality to support incoming material verification and receiving processes.
- Implemented a split order feature to separate raw materials and packaging materials within the ordering process.

Production Monitoring and Quality Control ([Confidential](#))

A system for tracking production processes and monitoring machine and quality control activities.

- Developed master data, including items, machines, measuring items, dies, and check sheets.
- Built dashboard visualizations for production performance, machine monitoring, and quality control.

Implemented production planning and daily progress check using dynamic data table forms and check sheets, where each column is interdependent and varies by production shift.

CERTIFICATIONS

Fullstack Web Development (Binar Academy)

2023

Basic Web Programming (Dicoding)

2021

Basic AWS Cloud (Dicoding)

2021

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Golang, PHP.

Frontend: React.js, Next.js, Vue.js, Solid.js, Astro.js, TanStack Query, Redux, Jotai, Zustand, shadcn/ui.

Database & Backend: MySQL, PostgreSQL, Express.js, Laravel.

Tools: Git, GitHub, GitLab, Docker, Vite, Bun, Figma, Jest, K6, Trello, VS Code, Cursor, Antigravity.

ADDITIONAL INFORMATION

Languages: Indonesian (Native), English (Beginner).

Primary Focus: Software Engineering, Web Development, Machine Learning/AI.