

Muhammad Emirsyah Makarim

Bandung, Indonesia

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Summary

AI-Focused Frontend Engineer with 3+ years of experience building scalable, user-centric web applications using React, Next.js, and Tailwind CSS. Proven track record in delivering AI-integrated platforms, including chatbots, recommenders, and automation tools. Skilled in leveraging cloud platforms like GCP and AWS to optimize performance and scalability. Successfully led projects impacting 10,000+ users, boosting user retention by 20% and growing organic traffic by 40% through performance-driven design and SEO best practices.

Education

Telkom University

Informatics

2023 - 2027

Bandung, Indonesia

• **GPA:** 4.0

• **Achievements:** Silver Medalist GEMASTIK 2024, 1st Winner ICP Global Hackathon, Semifinalist Microsoft AI Imagine Cup 2025

SMKN 4 Bandung

Software Engineering

Jan 2020 - Jan 2022

Bandung, Indonesia

• **GPA:** 88/100

• **Achievements:** 1st Winner PANDI Hackathon UID, 2nd Winner Permata Bank Youthpreneur

Work Experience

ADA4Career

CTO

Oct 2024 - Present

Remote, Bandung Indonesia

- Built and maintained ADA.AI on a monorepo architecture with Next.js, Tailwind CSS, and React Query, delivering a 92% usability rating and 95% accessibility score for 300+ daily active users.
- Built scalable web scraping systems to scrape 500+ data daily using adaptive and self-recover systems with Crawl4AI, Playwright, and Modal for automation systems, enhancing data collection efficiency
- Implemented design systems using Shadcn and Typescript for faster development, improving team development experience and efficiency up to 50%
- Integrated AWS-based architecture, implemented CI/CD pipelines with Github Actions, and deployed AI solutions using AWS Bedrock, resulting in streamlined deployment processes and enhanced system reliability

Redooce

Lead Frontend

Dec 2024 - Apr 2025

Remote, Bandung Indonesia

- Developed and optimized Redooce's landing page with Next.js, ensuring fast load times and improved SEO performance.
- Collaborated with the Frontend Team to build a production-grade waste management platform with dynamic RBAC using Next.js, React Query, and React Hook Form, enhancing system security and user management
- Integrated Sanity as a headless CMS, enabling the marketing team to publish and manage content efficiently without developer assistance.

Badan Riset Inovasi Nasional (BRIN)

Software Engineer Research Assistant

Jun 2022 - Oct 2022

Bandung, Indonesia

- Built and maintained an internal application using React Js and Tailwind, which improved team and research workflow by 60%
- Led and guided fellow researchers to develop an IoT-based integration application and an internal team application, improving data synchronization and team efficiency by 25%

BiruTekno.Inc

BiruTekno Software Engineering Intern

Apr 2022 - Aug 2022

Bandung, Indonesia

- Developed and maintained the company website for BiruTekno and client websites using React and Vue, enhancing user experience for over 1000 users
- Maintained and tested an application used by over 10,000 users weekly, using tools like Python and TRPC to improve app performance by 20%

Projects

ADA4Career Platform | <https://ada4career.com/>

Dec 2024 - Present

ADA4Career

- Streamlined frontend development using reusable components with Next JS, Tailwind CSS, and ShadCN, cutting dev time by 40% and improving code maintainability.

- Engineered AI pipeline with graph search, Retrieval-Augmented Generation (RAG), and Context Engineering to power AIDA chatbot and recommender systems, increasing response relevance by +60%.
- Enhanced AI system quality by integrating analytics, observability, and LLM judge systems via Langfuse for daily QA, while implementing user-level AI security with Arcjet.

Dharma-AI | <https://github.com/emrsyah/dharma.ai>

Oct 2024 - Dec 2024

Side Project

- Increased document automation efficiency by 90% through AI-powered workflows utilizing LangChain.
- Streamlined product architecture by developing reusable frontend components with React, Tailwind CSS, and ShadCN, reducing development time by 40%.
- Enhanced legal document accuracy up-to 95%, leveraging AI to detect red flags, missing criteria, and provide actionable recommendations for end-users.

Klinnika - Clinic Management System | <https://github.com/emrsyah/klinnika>

Sep 2023 - Oct 2023

Side Project

- Klinnika is a clinic management system featuring doctor, patient, queue, and inventory management.
- Equipped with a payment system and Online Medical Records.
- Integrated with a mobile application and a WhatsApp bot for queue registration.
- Developed with Next 13, Radix UI, React-Hook-Form, Tailwind, Zod, and TypeScript.

Skills

- **Skills:** Javascript (ES6), Typescript, GO-Lang, Dart, Python, Java, React, Next js, Express, Fiber, Tailwind, Styled-Components, TRPC, Prisma, Firebase, Zod, Framer Motion, Shadcn, MCP, Zustand, AI Automation, Monorepo, Micro-Services