

Muhammad Tangguh Riyadi

Experienced software engineer focused on building engaging and accessible digital experiences, harnessing cutting-edge AI technologies to enhance and optimize scalable application platform.

Work Experience

Software Engineer, PT Motiolabs Digital Indonesia Dec 2022 - Present

- Architected and implemented AI-augmented systems using Next.js, Langchain.js, and Retrieval Augmented Generation (RAG), enhancing application intelligence and user experience.
- Enhanced chatbot applications with Next.js, React, and Node.js, implementing serverless functions for scalability.
- Designed microfrontend architecture using React & SingleSPA, applying SOLID principles and Factory Design Pattern.
- Established and enforced technical standards for clean code and quality assurance, while building and maintaining the @motiolabs/motio-js NPM library.
- Optimized SEO implementation through server-side rendering, OpenGraph, and semantic HTML, significantly improving web application visibility and performance.
- Planned and built microservice architecture from the ground up for EdTech applications, leveraging Node.js and TypeScript. Executed message brokering/queueing with Kafka, server-side caching with Redis, and service distribution using gRPC.
- Managed containerized deployments using Docker, streamlining the development-to-production pipeline and ensuring consistent environments across the development lifecycle.
- Collaborated on developing various EdTech application features, ensuring code quality and reliability.

Frontend Engineer, PT Tricada Intronik Sep 2022 - Dec 2022

- Contributed to Tricada Intronik management system as a frontend .
- Developed customer premise equipment dashboard for PT Telkomsel using ReactJS.
- Participated in developing an enterprise product catalog using ReactJS and Bootstrap

Freelance Experience

Fullstack Developer (Freelance), PT Chindrawisata May 2024 - Jul 2024

- Architected and developed robust ReactJS frontend applications, ensuring scalable and maintainable codebases for optimal user experiences.
- Engineered high-performance backend systems using Node.js and Express.js, implementing RESTful APIs and microservices architecture to support complex business logic.
- Created and optimized Entity-Relationship Diagrams (ERDs) for PostgreSQL databases, enhancing data integrity and query performance for large-scale applications.
- Designed and enforce comprehensive CI/CD workflows, integrating tools like Jenkins or GitLab CI, to automate testing, building, and deployment processes, significantly reducing time-to-market.
- Configured and fine-tuned Nginx load balancers to distribute traffic efficiently across multiple server instances, enhancing application resilience and performance under high load conditions.

Frontend Developer (Freelance), Frame May 2024 - Jun 2024

- Developed and maintained robust end-to-end test suites using Cypress, enhancing overall product quality and reliability.
- Improved AI-Powered Workspace SaaS with React.
- Contributed to the development of a workspace application powered by AI tools.

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Skills

Programming Languages

JavaScript, Golang, Python, TypeScript, SQL

Libraries Frameworks

React, NextJS, Express, NestJS, NodeJS, TailwindCSS, Langchain, Ant Design, Material UI, SingleSPA, Drizzle, Prisma, Cypress, OpenAI

Tools/Software

Jira, Trello, Notion, Excalidraw, Figma, Postman, Github, Gitlab, Webpack, Swagger, Kafka, RabbitMQ, Slack, Coda

Cloud Services/Platforms

AWS, DigitalOcean, Docker, Kubernetes, GIT CI/CD, Linux, Nginx, Vercel, Sentry, Kong

Databases

PostgreSQL, MySQL, MongoDB, Redis, VectorDB, Elasticsearch.

Highlight Projects

Chat RKD

AI-powered Virtual Assistant that swiftly answers queries via text or image prompts. Customizable with private datasets, it provides interactive and helpful responses to user questions about their own information.

Kanboom Scrum

An interactive Kanban board application. Simplify software development workflow using drag & drop features.

Certifications

- Golang, From Beginner To Expert
- Docker, From Beginner To Expert
- Frontend Engineering Bootcamp
- Frontend Engineering Fundamentals

Education

Bachelor of Asset Management

Bandung State of Polytechnique, 2019