

# Muhammad Tangguh Riyadi

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

## Full-Time Work Experience

### Frontend Engineer, PT Motiolabs Digital Dec 2022 - Present

- Architected and implemented AI-augmented systems using Next.js, React.js, Langchain.js, and Retrieval Augmented Generation (RAG), enhancing application intelligence and user experience.
- Enhanced SaaS Multi-Tenant 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.
- 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 Work 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

HTML, CSS, 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