

MUHAMAD REZA MUKTASIB

FULLSTACK ENGINEER | SOFTWARE ENGINEER

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SUMMARY

Backend-focused Full Stack Engineer with hands-on experience building scalable web applications, APIs, and distributed systems using Node.js, TypeScript, Java, Laravel, and modern cloud infrastructure. Experienced in designing secure backend services, microservice-based architectures, WebSocket/WebRTC systems, and enterprise integrations across warehouse management, healthcare, and online assessment platforms. Proficient in AWS, Docker, CI/CD pipelines, PostgreSQL, and MongoDB within Agile delivery environments.

SKILLS

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|----------------------------|---|
| • Languages | : JavaScript, TypeScript, Java, Python, PHP, Golang |
| • Backend | : Node.js, Express.js, Laravel, Spring, GraphQL, WebSockets, Microservices, REST API |
| • Frontend | : React, Next.js, Tailwind CSS, Angular |
| • Infrastructure & DevOps | : AWS, GCP, Docker, CI/CD, Nginx, Apache |
| • Databases | : PostgreSQL, MySql, MongoDB, Firebase, Redis |
| • Architecture & Practices | : API Design, System Design, Agile/Scrum, Scalable Systems, Secure Application Development, Hexagonal Architecture Implementor, Event Driven Architecture |

EDUCATION

Politeknik Elektronika Negeri Surabaya - Associate Degree in Informatics Engineering

2022 – 2025 | GPA: 3.94/4.00

Hanyang University - Student Exchange Program, Computer Science

2024 – 2025 | South Korea

EXPERIENCE

Backend Engineer | [PT. Paragon Technology and Innovation](#)

August 2025 – Present | Jakarta, Indonesia | Contract (through PT Sobat Kreasi Nusantara)

- Contributed to the development and scaling of an enterprise Warehouse Management System (WMS) integrated with ERP and SAP ecosystems.
- Implemented Batch Management features across 24+ active warehouses, improving inventory traceability and operational consistency.
- Developed backend services and integration modules for real-time synchronization of warehouse operations, logistics workflows, and product batch data.
- Collaborated with frontend and cross-functional teams to deliver reliable production-grade features in Agile development environments.
- Supported high-volume warehouse operations handling tens of thousands of monthly transactions with a focus on system reliability and scalability.

Fullstack Engineer | [PT. Sobat Kreasi Nusantara \(SOBATBISNIS\)](#)

August 2025 – Present | South Jakarta (Sudirman), Indonesia | Contract

- Developed and maintained enterprise web applications across backend services, API integrations, and frontend feature implementations.
- Built scalable backend systems using Java and microservices REST APIs for healthcare, insurance, and internal business platforms.
- Contributed to Biomedilab healthcare systems by optimizing API performance and improving database efficiency.
- Implemented secure service integrations for Sampo Insurance and Midtrans payment gateway workflows.
- Collaborated within Agile teams to deliver scalable and maintainable fullstack solutions aligned with client business requirements.

- Worked across diverse project requirements, ensuring high-quality, scalable backend solutions aligned with client goals.

Fullstack Developer | [Exzam.id](#)

June 2024 – December 2025 | Surabaya, Indonesia

- Developed Exzam.id (v1), a multi-tenant online examination platform supporting digital assessments for schools and universities.
- Built frontend features using React and developed backend services using Laravel for authentication, exam workflows, and subscription management.
- Designed reusable UI components to accelerate feature development and improve interface consistency.
- Optimized API performance and database queries to improve system reliability and concurrent user handling.
- Integrated automated proctoring systems and Midtrans payment gateway for secure exam monitoring and subscription workflows.

Backend Engineer & DevOps | [Mufko App](#)

February 2025 – August 2025 | South Korea (Remote)

- Developed and maintained backend services using Laravel for a production application serving 4,100+ daily active users.
- Optimized API response times and database performance to improve application reliability and scalability.
- Managed AWS infrastructure, deployment workflows, and Docker-based environments for continuous delivery.
- Maintained production stability and monitored backend services to ensure consistent application uptime.

Freelance Web Developer | [Cipta Kode](#)

December 2022 – Present | Surabaya, Indonesia

- Delivered 10+ fullstack web projects using React, Laravel, Python, and cloud-based technologies for various business domains.
- Developed responsive frontend interfaces and scalable backend APIs tailored to client requirements.
- Worked directly with clients to translate business needs into production-ready applications and automation solutions.

Intern Web Developer | [PT. Digital Solusi Master](#)

December 2023-February 2024 | Sidoarjo, Indonesia

- Maintained and enhanced features for Diakademik, an educational platform used by 2,000+ students and staff.
- Converted Figma designs into responsive frontend interfaces using Tailwind CSS and modern web technologies.
- Refactored legacy codebases to improve maintainability, performance, and development efficiency.
- Collaborated with internal teams to deliver stable and user-friendly web experiences.

HIGHLIGHTED PROJECTS

Fullstack Engineer | Procspsy (Final Year Project at Politeknik Elektronika Negeri Surabaya)

June 2024 – Present | [docs.procspsy.link](#)

- Procspsy is an open-source automated proctoring application designed to uphold academic integrity during online assessments.
- Developed anti-cheating tools within the application, successfully tested to handle 30 concurrent users with only 20% CPU usage on a dual-core CPU.
- Led the design and open-sourcing efforts for the WebRTC component, built as a Chrome Extension for real-time monitoring and communication.
- Implemented the backend using TypeScript, MongoDB, and Express, adopting a Hexagonal Architecture for a scalable and maintainable design.
- Developed the WebRTC server utilizing WebSockets and Mediasoup to enable efficient real-time media streaming.
- Designed and implemented a custom socket protocol for secure communication between the Chrome Extension and the React (Next.js) dashboard, facilitating seamless media stream sharing.

Fullstack Engineer | Exzam.id (Online Exam Platform - MultiTenancy System)

June 2024 – Present | [exzam.id](#)

- Designed and implemented the frontend using React, including a custom internal UI component library that reduced development me by 40%.
- Built and maintained backend services with Laravel, managing mul-tenant exam workflows, authen ca on, and subscrip on logic.
- Integrated Proctpsy as the automated proctoring engine, enabling secure online monitoring during tests.
- Achieved stable performance for up to 120 concurrent users, with efficient load handling and opmized query performance.
- Implemented Midtrans payment integra on to support paid features, ins tu onal licensing, and subscrip on-based access.

AWARDS & ACHIEVEMENTS

- IISMA Awardee 2024 - Hanyang University, South Korea
- Silver Medal - IYSAA, WSEEC 2023 (International)
- 1st Place - Business Plan Competition, Fasilkomfest 2023 (UPN Jawa Timur)
- 2nd Place - Industrial Engineering IE FAIR 17th (ITS) (Business Plan Competition and Industrial Engineering)
- 3rd Place - Cerdas Cermat Kebangsaan, SMA Awards (Jawa Pos)
- 3rd Place - UI/UX Competition, Fasilkomfest 2023 (UPN Jawa Timur)
- 4th Place - Chemistry Competition, Universitas Airlangga

CERTIFICATIONS

- NEXT.js (JS/TS) Course - Udemy | 2025
- Golang Course - Udemy | 2025
- Docker & Kubernetes - Udemy | 2025
- Junior Web Developer Certification - BNSP | 2023
- JavaScript Fundamental - Dicoding | 2023
- SQL Fundamental - Dicoding | 2023
- Project Management - Dicoding | 2023
- Programming Basic with C - Dicoding | 2023

LANGUAGES

- Indonesian - **Native**
- English - **Advanced Proficiency (TOEIC 840)**
- Korean - **Basic / Survival Level**