

Luqman Indra Firmansyah

Backend Engineer | Node.js, NestJS & Database Performance

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PROFESSIONAL SUMMARY

Backend Engineer with 6+ years of experience developing production systems across healthcare, e-commerce, wellness, and IoT. Specialize in Node.js, NestJS, TypeScript, and SQL performance optimization, with experience securing transaction APIs, developing asynchronous workflows, and integrating customer applications with internal operational systems.

PROFESSIONAL EXPERIENCE

Backend Developer | PT Arya Noble (ERHA Group)

Indonesia | Nov 2025 - Present

- Cut average production API response time for transaction retrieval by 97%, from 10 seconds to 300 milliseconds, through query-plan analysis, index tuning, and database optimization.
- Identified and optimized time-consuming database queries using production monitoring tools, addressing performance bottlenecks and tracking the impact of improvements.
- Re-engineered checkout across combined product and treatment orders, teleconsultation, and Flash Sale, moving pricing, promotional calculations, and payment totals to the backend to reduce reliance on client-supplied values and strengthen transaction security.
- Implemented backend verification for HMAC-signed requests, Apple App Attest, and Google Play Integrity, with request integrity checks and timestamp validation to protect sensitive APIs against tampering and replay attacks.
- Developed backend integrations between Erha Buddy and internal clinic systems to support end-to-end healthcare transactions.
- Improved transaction workflow reliability through asynchronous processing, concurrency controls, and retry safeguards.
- Built internal diagnostic tooling to investigate database performance bottlenecks and support production troubleshooting.
- Own backend delivery and production support for Erha Buddy, reviewing backend changes, coordinating releases, and troubleshooting production incidents.

Backend Developer | Rolling Glory

Bandung | Sep 2022 - Oct 2025

- Delivered backend services and REST APIs for healthcare, wellness, and consumer products using NestJS, Node.js, and TypeScript.
- Developed integrations for hospital microservices covering appointments, queue monitoring, medical check-ups, promotions, and prescription delivery, using PostgreSQL, Kafka, Redis, Elasticsearch, and MongoDB.
- Diagnosed slow endpoints and infrastructure bottlenecks using production monitoring tools, then refactored services and tuned database queries and indexes to address performance issues.
- Built backend features for live wellness classes, on-demand content, child-growth monitoring, and personalized recommendations.

Full-Stack Developer | Habibigarden

Bandung | Jul 2020 - Jul 2022

- Built dashboards and REST APIs for remote garden and device management using React, Node.js, MySQL, and InfluxDB.
- Delivered a React Native Android application backed by AWS services to display real-time soil-monitoring data.
- Implemented scheduled notifications for farm and device conditions and aggregated MQTT sensor data to improve graph rendering.
- Developed an inventory workflow integrated with device production.

SELECTED PROJECTS

Erha Buddy | 2024 - Present

Contributed to Erha Buddy through Rolling Glory from 2024 and continued at Arya Noble from November 2025, developing backend services for teleconsultation, skincare commerce, dermatologist appointments, treatment journeys, prescriptions, payments, and delivery integrations.

Technologies: NestJS, TypeScript, MySQL, Redis, New Relic, AWS S3

Mitra Keluarga | 2022 - 2023

Developed backend services for event-driven hospital microservices supporting patient appointments, queue monitoring, medical check-ups, promotions, and prescription delivery.

Technologies: NestJS, PostgreSQL, Kafka (Confluent), Redis, Elasticsearch, MongoDB, New Relic

Image Optimization Research | 2023

Developed a serverless image-optimization pipeline and evaluated image-quality settings to balance visual fidelity, file size, and delivery performance.

Technologies: Node.js, AWS Lambda, AWS S3, AWS API Gateway

TECHNICAL SKILLS

Core Backend: Node.js, NestJS, TypeScript, JavaScript, REST APIs, Microservices

Data & Messaging: MySQL, PostgreSQL, Redis, MongoDB, Kafka, RabbitMQ, Elasticsearch

Cloud & Operations: AWS, Docker, New Relic, Git

Additional: Go, Laravel, MQTT, InfluxDB

EDUCATION

Bachelor's Degree | Universitas Padjadjaran

Bandung | Aug 2017 - Feb 2022