

Ibrahim Muhammad

Backend Engineer | Node.js, Go, Laravel | APIs & Real-Time Systems

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PROFESSIONAL SUMMARY

Backend Engineer with **5+ years** of hands-on software development experience across commercial products and enterprise applications. Built backend services with Node.js, Go, Laravel, MySQL, and MongoDB. Experience includes a billiard billing and POS platform serving **200+ paying clients**, workflow automation reducing manual processing by **up to 85%**, and real-time device integrations.

TECHNICAL SKILLS

Languages & Backend: JavaScript, Go, PHP, TypeScript, Node.js, Express.js, Laravel, Go Fiber
Databases & Architecture: MySQL, MongoDB, indexing, transactions, hexagonal architecture, repository pattern
APIs & Integration: REST APIs, WebSocket, Socket.IO, MQTT, gRPC, RTSP/HLS, NVR/ISAPI
Security & Testing: JWT, Sanctum, RBAC, request validation, Jest, sqlmock
Tools & Frontend: Git, Docker, CI/CD, React

WORK EXPERIENCE

Software Engineer - BLUESILO

Sep 2025 - Present | Project-Based

- Contributed to **26 development tickets** for a real-time monitoring platform, delivering backend integrations, API enhancements, and full-stack fixes using Node.js, Express, and MongoDB.
- Developed REST APIs and integrations for camera/NVR management, recording retrieval, and runtime status updates using ISAPI, MQTT synchronization, and gRPC services.
- Implemented RTSP/HLS streaming and playback handling, including connection validation, readiness checks, container lifecycle management, and recovery logic.
- Added request validation, authorization checks, error diagnostics, and Jest tests for device and streaming workflows.

Software Engineer Intern - PT HM Sampoerna

Feb 2025 - Jul 2025 | Surabaya, Indonesia

- Reduced manual processing by **up to 85%** by developing automation scripts for repetitive operational data workflows.
- Enhanced Laravel/MySQL REST APIs for enterprise workflow integration, supporting **36 successful conversion tickets**.
- Implemented real-time order-management chat using Node.js and WebSocket, supporting requirement clarification, debugging, testing, and QA handoff.

Founder & Lead Developer - BillingMikrotik

Billiard Billing & POS Platform | Jan 2021 - Jul 2025 | Surabaya, Indonesia

- Built and supported a billiard billing and POS platform serving **200+ paying clients**, with inventory and membership management supporting **1,000+ customer members**.
- Developed a Go/Fiber membership backend with MySQL, hexagonal architecture, JWT authentication, and repository-level tests using sqlmock.
- Implemented idempotent member-point top-ups, QR activation, refresh-token flows, OTP expiry, and authorization checks to safeguard transactions and account access.

Full Stack Developer - KJPP Guntur Eki Andri dan Rekan

Jan 2023 - Jan 2025 | Surabaya, Indonesia

- Developed the Laravel/MySQL backend for SIMGEAR, centralizing Excel-based appraisal workflows across multiple branches.
- Implemented REST APIs with Sanctum authentication, role-based access control, Google Drive integration, and request validation for enterprise workflows.
- Used transaction-safe writes and soft deletion to support project, payment, and document workflows, alongside React/TypeScript frontend modules.

INFRASTRUCTURE PROJECT

BillingMikrotik Staging Infrastructure | In Progress

Setting up a DietPi-based Linux home server for application staging, with Cloudflare Tunnel, host monitoring, and GitHub Actions integration to support testing and deployment workflows.

EDUCATION

Bachelor of Information Technology, Universitas Telkom | GPA: 3.77 / 4.00 | Graduated Jun 2025

CERTIFICATIONS & ACHIEVEMENTS

Top 156 - INNOVILAGE 2023 | Dicoding: Getting Started with Dart; Basic Structured Query Language (SQL)