

AL MASUM NISHAT

Senior Backend Developer

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PROFESSIONAL SUMMARY

Backend Developer with 2+ years of professional experience in PHP/Laravel, Java, and Node.js, building scalable microservices, RESTful APIs, and high-throughput systems — including a real-time order management system for a national stock exchange. Skilled in database optimization (PostgreSQL, MySQL), asynchronous processing (Redis, RabbitMQ), and financial/messaging protocols (FIX,ITCH, MQTT, XMPP). Publishes open-source Laravel packages and mentors junior developers.

CORE TECHNICAL SKILLS

Backend: PHP, Laravel, Java, Node.js

Databases: PostgreSQL (incl. Vector Extension), MySQL, MariaDB

Architecture: Microservices, Service Mesh, RESTful API Design, OCR (Tesseract)

Messaging & Protocols: Redis, RabbitMQ, WebSocket, FIX, ITCH (Financial), MQTT, XMPP

AI / ML: Google Gemini API integration, vector embeddings, AI-based parsing, NLP pipelines

DevOps & Tools: Docker, Apache, Nginx, GitHub, GitHub Actions-style CI workflows

Frontend (supporting): Blade, Tailwind CSS, JavaScript, Alpine.js

Project Management: Notion, ClickUp

PROFESSIONAL EXPERIENCE

Kodevite

Senior Backend Developer (1 Apr 2025 — Present)

- Led backend development for scalable web applications using Laravel and Node.js.
- Optimized databases with PostgreSQL vector extensions for AI-driven search; used RabbitMQ and Redis for async processing and caching.

Kodevite

Backend Developer (12 Jan 2025 — 31 Mar 2025)

- Built Shaivo and WinAnyInterview; published open-source Laravel packages used by other developers.
- Contributed to core backend feature development ahead of promotion to Senior Backend Developer.

Projonmo Digital

Backend Developer (1 Jan 2024 — 31 Dec 2024)

- Designed microservices architecture for high-traffic applications.
- Built a REST API-based Laravel backend for a multi-vendor e-commerce website.
- Mentored junior developers in backend system design and Laravel best practices.

BN IT Solution

Technical Director (Mar 2017 – Dec 2023)

- Started a new company; our product was an Email Campaign Management System.
- Used third-party tools to send a massive amount of Emails. eg., 3k per second.
- Maintained many heavily loaded servers and many long-running queue systems.
- Load-balanced relay servers to avoid high loading times.

OMS for Stock Market Trading (DSE)

Tech: PHP, Laravel, Java, Redis, WebSocket, FIX, ITCH | **URL:** Not provided due to NDA

- Architected a real-time order management system for the Dhaka Stock Exchange.
- Built microservices in Java and PHP (Laravel console) to parse and process live ITCH and FIX protocol streams.
- Ran the Laravel backend on Octane to sustain 1M+ concurrent connections with minimal latency.
- Managed order lifecycle — creation, execution, and related workflows — with RESTful API design throughout.
- Contributed to delivering an OMS compliant with BSEC and DSE regulatory requirements.

Shaivo — Subscription-Based Home & Business Services Platform

Tech: PHP, Laravel, PostgreSQL, Blade, Alpine.js, Tailwind CSS | **URL:** Not provided due to NDA

- Built the backend and web platform for a subscription-based services marketplace, delivered as an MVP.
- Designed a role-based access system covering Admin, Customer, and Vendor roles.
- Implemented service subscription management, scheduling, and vendor task assignment.
- Built REST API endpoints for authentication, task status, and profile management.
- Consumed by a mobile app developed by a separate team.
- Implemented a complaint/ticket tracking system for service issues.

FiberMap — Fiber Network Mapping & Management System

Tech: PHP, Laravel, PostgreSQL, Blade, Tailwind CSS, Alpine.js | **URL:** Not provided due to NDA

- Owned end-to-end backend and full-stack development for a fiber network mapping and management platform.
- Built interactive mapping features: add icons/devices, plot locations, and draw cable routes.
- Rendered thousands of locations simultaneously on Google Maps without performance degradation.
- Implemented shortest-path (smallest path) route finding between network points.
- Added OTDR (Optical Time-Domain Reflectometry) lookup for fiber link diagnostics.
- Built export functionality for link maps and core maps to Excel, plus a device management module.

Laravel AI Translator (Open-Source Package — Packagist: masum/laravel-ai-translator)

Tech: PHP, Laravel, Google Gemini API, Redis | **URL:** <https://github.com/MasumNishat/ai-translation>

- Built and published an open-source Laravel package for AI-powered translation via the Google Gemini API.
- Designed a 3-tier translation retrieval system (cache → database → AI) with automatic invalidation.
- Built deferred batch translation: missing keys are collected per request and translated in one Gemini API call after the response is sent — zero page-load overhead.
- Cut repeat AI calls to zero after first translation, via the caching layer above.
- Example: a page with 35 new strings costs ~4 API calls on first load, and 0 on every subsequent load.
- Built a transparent override of Laravel's translator, so existing `__() / trans() / @lang()` calls work with no Blade changes.
- Added queue-based asynchronous processing and configurable rate limiting.
- Built a full audit trail for translation changes.

Laravel Tagging (Open-Source Package — Packagist: masum/laravel-tagging)

Tech: PHP, Laravel, MySQL, Barcode & QR Code Generation | **URL:** <https://github.com/MasumNishat/laravel-tagging>

- Built and published a production-ready Laravel package for automatic, polymorphic tag generation across any Eloquent model.
- Implemented multiple tag formats — sequential, random, and branch-based — configurable per model.
- Added barcode/QR code generation (CODE_128, CODE_39, EAN, UPC) with print-ready label output and a batch barcode API.
- Engineered race-condition-safe sequential tag generation using pessimistic locking with retry and exponential backoff.

- Optimized for production scale: sub-100ms tag generation (99th percentile), 100+ concurrent tag generations, and 1M+ tags supported per model type.
- Built an event system (TagCreated, TagUpdated, TagDeleted, TagGenerationFailed) for webhooks and audit trails.
- Added a RESTful API and an automated test suite with an OpenAPI 3.0 specification.

ADDITIONAL PROJECTS

- **Neoformia (LMS)** — PHP, Laravel, Alpine.js, Tailwind CSS, Yousign API: Integrated a document manager with a third-party e-signing agent (Yousign) and built video watch-time tracking; contributed to delivering an LMS compliant with French government course control law. (Not provided due to NDA)
- **WinAnyInterview** — PHP, Laravel, WebSocket, AI Agent Integration: Built the backend and the API layer connecting an AI agent (automated resume builder, analyser, and viva preparation) to the application. (Not provided due to NDA)
- **Mectrons (Multi-Vendor E-Commerce)** — PHP, Laravel: Developed backend CRUD modules for products, vendors, and orders. (<https://mectrons.com/>)

EDUCATION

Bachelor of Maritime Science (BMS) — Bangladesh Marine Academy, 2007–2010, 2nd Class

LANGUAGES

Bengali (Native), **English** (Fluent)