

Muhammad Jubayer

Backend & Full-Stack Software Engineer

Dhaka, Bangladesh | +880 1753-710293 | mjubayer.aiub@gmail.com
mjubayer.dev | github.com/Muhammad-AIUB | linkedin.com/in/muhammad-jubayer



PROFESSIONAL SUMMARY

Backend-focused software engineer with hands-on experience building and scaling production-grade microservices, multi-tenant systems, and RESTful APIs in Go, Node.js, and PHP. Comfortable across the full stack (Next.js, React) and shipping complete products end-to-end. Strong focus on clean architecture, reliability, and observability, with growing depth in distributed systems and system design.

SKILLS

Languages: Go (Golang), TypeScript, JavaScript, PHP

Backend: Gin, Node.js, NestJS, Express.js, Fastify, RESTful APIs, Microservices, Apache Kafka, Prisma

Databases: PostgreSQL, MongoDB, MySQL, Redis

Frontend: React.js, Next.js, Tailwind CSS, SWR, Zod

DevOps & Cloud: Docker, Kubernetes, CI/CD, Linux/VPS (Nginx), AWS (EC2, S3, ECS), MinIO/S3, Prometheus, Distributed Tracing

Practices: Clean Code, Problem-Solving, Team Collaboration, Adaptability

EXPERIENCE

Backend Developer

Jul 2025 – Present

OoNkoo — Remote

- Build and maintain Go microservices in a multi-tenant architecture, designing RESTful APIs with Gin over MongoDB and PostgreSQL.
- Shipped 5 services end-to-end: rule engine, document/PDF generation, feature flagging, email communications, and data mapping.
- Built a configurable rule engine supporting ranges, expressions, classifications, and multi-language conditions with database-per-tenant isolation.
- Developed a PDF generation service (wkhtmltopdf, MinIO/S3, dynamic templates) using a hexagonal architecture.
- Implemented feature flagging with hot-reload and expression-based rules; added ~100 req/s rate limiting and distributed tracing.
- Built a template-based communication service over HTTP and AMQP with idempotency and preference checks.
- Containerized services with Docker and Kubernetes; integrated Prometheus metrics, structured logging, health checks, and graceful shutdown.

Full-Stack Developer

Jan 2026 – Mar 2026

Unipixer — Barisal

- Built a real-time chat application (Next.js + NestJS) with WebSocket-based live messaging and conversations.
- Developed a content management system (CMS) with content CRUD, role-based access, and an admin dashboard.

Tech: Next.js, NestJS, TypeScript

Freelance Software Developer

2024 – Present

Independent / Client Projects

- Designed and shipped full production web platforms for clients end-to-end — frontend, backend, and deployment.
- Innodemy (innodemy.com): Built a Next.js + PostgreSQL learning management platform with a multi-category course catalog, live masterclass/webinar listings, local payment integration (bKash, Nagad), a blog/knowledge hub, and consultation booking.
- Health Systems Matter (healthsystemsmatter.com): Developed a Next.js + MongoDB knowledge & career platform with a downloadable resource library, newsletter subscription, blog/interview content system, testimonials, and contact/collaboration flows.

PROJECTS

RLaaS — Rate Limiter as a Service

Production-grade API traffic-control platform built with Next.js, NestJS, PostgreSQL, Prisma, and Redis.

- Built API key management and project-based access control for secure gateway usage.
- Implemented Token Bucket, Fixed Window, Sliding Window Counter, and Sliding Window Log rate-limiting algorithms.
- Created a recruiter-friendly Gateway Tester for live request simulation without Postman.
- Added real-time analytics for allowed/blocked requests, retry timing, and traffic visibility.
- Optimized PostgreSQL and Prisma query performance using composite indexing for faster analytics.

Tech: Next.js, NestJS, TypeScript, PostgreSQL, Prisma, Redis, Docker

GitHub: github.com/Muhammad-AIUB/RLaaS | **Live:** r-llaas-frontend.vercel.app

Enterprise Mortgage Management System

Core backend microservices in Go for a large-scale mortgage management platform.

- Designed and delivered 5 production-grade Go microservices (Go 1.23) using hexagonal architecture to decouple business logic from external drivers (Gin, PostgreSQL).
- Built an advanced rule engine supporting complex ranges, multi-language expressions, and classifications for highly variable mortgage logic.
- Implemented a database-per-tenant isolation strategy for strict data security and consistent performance across tenants.
- Integrated Prometheus metrics, distributed tracing, and ~100 req/s rate limiting; added hot-reload for runtime feature-flag evaluation without downtime.
- Created a template-based communication service over HTTP and AMQP with idempotency checks for reliable notifications.
- Ensured Kubernetes-readiness with graceful shutdown, structured logging, and health checks.

Tech: Go 1.23, Microservices, Kafka, PostgreSQL, MinIO/S3, Gin, Prometheus, Docker, Kubernetes

PRISM — AI-Powered Code Review Platform

Self-hostable AI code-review SaaS built with Laravel, Inertia.js, React, PostgreSQL, and Redis.

- Architected an event-driven webhook pipeline with HMAC-SHA256 signature verification and CIDR-based GitHub IP whitelisting, supporting PR and direct-commit review modes.
- Engineered a dual-stage AI pipeline: language-aware analysis across security, performance, and code-quality lenses, plus concrete fix generation with before/after diffs.
- Implemented AES-256 encrypted token storage, multi-tier rate limiting (60–100 req/min), strict CSP headers, and audit logging.
- Optimized performance with Redis caching that cut GitHub API calls by ~80%, composite indexes, and eager loading for sub-50ms dashboard queries.
- Built a reliability layer with job retry (exponential backoff), structured JSON logging with request-ID tracing, and a health endpoint.
- Delivered notifications via email (Resend) and Slack webhooks, plus PDF export and score-timeline charts.

Tech: Laravel 11, PHP 8.4, Inertia.js, React 18, PostgreSQL, Redis, OpenRouter AI, Docker

GitHub: github.com/Muhammad-AIUB/PRISM | **Live:** prism-2o7j.onrender.com

EDUCATION

B.Sc. (Hons) in Computer Science & Engineering

Jan 2020 – Feb 2025

American International University-Bangladesh (AIUB)

Higher Secondary Certificate (Science)

2017 – 2019

Govt. Syed Hatem Ali College

Secondary School Certificate (Science)

2010 – 2017

Barisal Zilla School

LANGUAGES

Bengali (Native), English (Professional)