

Hasibul Islam

Senior Backend Engineer | Senior Backend Architect

devhasibulislam@gmail.com | [linkedin.com/in/devhasibulislam](https://www.linkedin.com/in/devhasibulislam) | github.com/devhasibulislam
[+8801906315901](tel:+8801906315901) | devhasibulislam.vercel.app | [Dhaka, Bangladesh](#)

Professional Summary

Senior Backend Engineer with 7+ years of professional backend engineering experience building and owning production systems with Node.js, NestJS, TypeScript, PostgreSQL, Redis, and BullMQ. Experienced in backend architecture, multi-tenant SaaS, schema design, query optimization, background workers, authentication, API design, and production infrastructure. Cut a hot-path API's p95 latency from 200ms to 20ms through compound indexing, query rewrites, DTO projection, and Redis cache-aside design. Own backend delivery end to end across architecture, data models, APIs, asynchronous processing, Docker deployments, CI/CD, and observability.

Technical Skills

- **Languages:** TypeScript, JavaScript (ES6+), Python, SQL
- **Backend:** NestJS (microservices, CQRS, guards, interceptors, Passport), Node.js, Express, REST, GraphQL (Apollo Federation), WebSockets, Socket.io
- **Databases:** PostgreSQL (schema design, Row-Level Security, indexing, query optimization, transactions), TypeORM, Redis, MongoDB, PGVector, Prisma, MySQL, SQLite, CockroachDB
- **Messaging/Async:** BullMQ, Kafka, RabbitMQ, event-driven architecture, background workers, retry/DLQ patterns, per-tenant queue isolation
- **Security:** Passport, JWT, OAuth, RBAC, GDPR/CCPA compliance
- **Cloud/DevOps:** AWS (EC2, S3, Lambda), Docker, GitHub Actions, Nginx
- **Testing:** Jest, Supertest, autocannon, k6
- **AI/LLM:** OpenAI, Anthropic Claude, LangChain, RAG pipelines, vector embeddings, MCP servers, function calling
- **Frontend:** React.js, Next.js, Redux Toolkit, Tailwind

Professional Experience

ZMC Technologies Ltd. - Banani, Dhaka (On-Site) | [Website](#)

Sr. Backend Architect | March 2026 - Present

Sr. Software Engineer (Backend) | September 2025 - March 2026

- Own backend architecture across a three-product multi-tenant SaaS portfolio spanning real estate ERP, property CRM, and PropTech trading platforms, including services, data models, APIs, asynchronous workloads, and infrastructure
- Cut a hot-path PostgreSQL-backed list API's p95 latency from 200ms to 20ms through compound indexing, query rewrites, DTO projection, and Redis cache-aside caching ([case study](#))
- Standardized multi-tenant isolation using PostgreSQL Row-Level Security, enforcing tenant boundaries at the database layer instead of relying solely on application-level checks ([reference implementation](#))
- Built pgvector-backed semantic search for internal tooling using OpenAI and Anthropic Claude via RAG
- Architected NestJS microservices over Kafka and RabbitMQ; introduced BullMQ workers for asynchronous workloads with retry handling and per-tenant queue isolation
- Promoted to Sr. Backend Architect after 6 months based on architectural ownership and delivery

- Own production backend operations end to end, including Docker-based deployments, VPS staging, cloud production, GitHub Actions CI/CD, application and infrastructure observability, and production debugging

Zubion Group - Dhanmondi, Dhaka (Hybrid | Contract) | [Website](#)

Full-Stack Delivery Lead | September 2024 - July 2025

- Led end-to-end delivery of the client's full product stack: marketing site, CRM, and cross-platform mobile app (Next.js, NestJS, Apollo GraphQL, Prisma)
- Designed the CRM now used as the primary system for Facebook lead management across the client's properties; every inbound Meta lead routes through it
- Built centralized multi-channel communication (email, SMS, chat) with real-time sync and automated agent notifications
- Deployed on AWS with Docker; integrated SSLCommerz payments and broker-performance analytics dashboards

WeWise & WiseLead - Tel Aviv, Israel (Remote) | [Website](#)

Backend Lead | April 2024 - September 2024

- Led backend for a WhatsApp marketing and lead-automation CRM: bulk/scheduled messaging, CSV import/export, multi-account management, audience segmentation
- Built on Node.js, Express, MongoDB, Twilio, and Redis; validated with 90+ pilot businesses during development
- Implemented Passport/JWT-based authentication, RBAC, real-time delivery tracking via Socket.io, and WhatsApp API rate-limit compliance
- Product-reported outcomes: 26+ hours saved per business monthly on unqualified-lead calls, ~28% lift in follow-up conversion

MessageMind - Via Durazzo, Italy (Remote) | [Website](#)

Sr. Backend Engineer | March 2023 - February 2024

- Built the backend for a unified messaging platform spanning WhatsApp, Messenger, Instagram, and web chat using NestJS, PostgreSQL, Redis, and Prisma, serving 5,000+ companies as a Meta Business Partner
- Scaled real-time messaging across NestJS microservices with Kafka-style pub/sub and BullMQ workers, implementing retry and dead-letter handling to prevent message loss during downstream service outages
- Integrated OpenAI and DeepSeek for AI-driven auto-replies and workflow automation
- Enforced end-to-end encryption, RBAC, and GDPR/CCPA controls

Prokken Inc. - Dhaka, Bangladesh (Remote)

Founder & Principal Engineer, Backend Architecture & Client Delivery | June 2021 - October 2025

- Founded and ran a dev agency delivering full-stack SaaS to international clients; managed a paid team on frontend, mobile, and QA while owning backend architecture and delivery
- Designed and solo-engineered two SaaS products under NDA; both acquired by US companies in 2025 (NDA-covered; documentation available on request)
- Delivered contract engagements for [PTCL Group](#) (WhatsApp Business automation, Pakistan's largest telecom), [NadlanOne](#) (real-estate operations backend, Israel), and [lthra](#) (content and cultural program platform, King Abdulaziz Center for World Culture, Saudi Arabia)

Education

M.Sc. Computer Science - Jahangirnagar University, Dhaka (2025)