

# MAMUNUR RASHID

✉ mamuncse17@gmail.com 📞 +880 1521-322300 📍 Dhaka, Bangladesh  
🏠 mamunur-rashid 🌐 rashid-mamun

## PROFESSIONAL SUMMARY

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Backend Software Engineer with 3+ years of experience designing and delivering high-performance, scalable, and secure web applications across travel, hospitality, and SaaS domains. Expert in microservices, distributed systems, and API integrations. Proven track record of optimizing system performance, reducing infrastructure costs, and delivering business-critical features in fast-paced environments.

## PROFESSIONAL EXPERIENCE

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### Software Engineer

ShareTrip, Dhaka

*Nov 2022 – Present · Full-time*

- Architected microservices for flight search, booking, and post-booking management across **20+ airlines** — designed for high availability with **sub-200ms** API response times under peak load.
- Built a unified **multi-airline booking engine** integrating **10+ third-party APIs** with dynamic pricing, void, refund, and reissue workflows — contributing to **20% revenue growth** and **15% fare reduction**.
- Implemented **Redis** caching and **RabbitMQ** async pipelines — cutting server failure rates by **~40%** during high-traffic booking windows.
- Reduced infrastructure costs by **30%** by migrating flight log storage to **AWS S3** and eliminating redundant database dependencies.
- Delivered **seat selection** and **ancillary booking** features end-to-end using NestJS + TypeScript — improving booking conversion rate by **~15%**.
- Technologies: **NestJS · TypeScript · Express.js · MySQL · MongoDB · Redis · RabbitMQ · AWS S3 · Docker · Jest**.

### Backend Developer

ChillyPOS, Dhaka

*Apr 2025 – Mar 2026 · Contract · Remote*

- Architected the entire backend from scratch — **multi-tenant** system supporting **100+ paying businesses** with isolated data architecture, RBAC, and subscription billing using Express.js + MongoDB.
- Implemented multi-branch support — enabling location-level reporting and controls under a single tenant account.
- Built **60+ REST API endpoints** spanning inventory, orders, CRM, HRM, and accounting modules — powering real-time dashboards and automated SMS/email daily sales reports.
- Designed **BullMQ**-based background job system processing **500+ jobs/day** — stock alerts, scheduled reports, kitchen notifications, and SMS/email delivery pipelines.
- Integrated **AWS S3** for document/receipt storage and **WebSocket**-based real-time order tracking across kitchen and customer displays — reducing operational delays by **20%**.
- Technologies: **Express.js · MongoDB · Redis · BullMQ · WebSocket · AWS S3 · Docker**.

### Backend Developer

HalalExplore, Dubai

*Jul 2023 – Feb 2024 · Contract · Remote*

- Built the full backend for a **B2C** halal-compliant travel platform covering hotels, cruises, transfers, insurance, and packages — serving users across the Middle East.
- Integrated **Ratehawk** and **Hotelbeds APIs** for real-time availability, pricing, and booking workflows — cutting manual booking errors by **~90%**.
- Implemented **JWT** authentication with email verification and RBAC — securing multi-role access across B2C endpoints.
- Optimized third-party API performance via request batching and response caching — reducing average API latency by **~30%**.
- Technologies: **Express.js · MongoDB · JWT · Ratehawk API · Hotelbeds API · REST APIs · Git**.

## TECHNICAL SKILLS

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**Programming Languages:** TypeScript, JavaScript, C, C++, SQL

**Frameworks:** Node.js, NestJS, Express.js

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Messaging Systems:** RabbitMQ, Apache Kafka, BullMQ

**Cloud Technologies:** AWS S3, Docker

**Testing & DevOps:** Jest, Git, GitHub Actions, CI/CD Pipelines

**APIs:** REST, SOAP, WebSocket, JWT Authentication

## EDUCATION

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**M.Engg. in Computer Science & Engineering**

*Apr 2023 – Present*

Mawlana Bhashani Science & Technology University

**B.Sc. in Computer Science & Engineering**

*Feb 2017 – Jan 2023*

Mawlana Bhashani Science & Technology University

## PROBLEM SOLVING

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LeetCode (400+ solved) — HackerRank (Gold Badges) — BeeCrowd

## PROJECTS

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**Let's Form a Team** – Role-Based Authentication System

**GitHub**

- Architected secure user management system with granular permission controls for multiple user roles including Super Admin, Manager, and Employee levels.
- Implemented JWT authentication with refresh token rotation, Redis caching for session management, and comprehensive API rate limiting.
- Technologies: **NestJS · MySQL · Redis · JWT.**

**Chat App Backend** – Real-Time Messaging Platform

**GitHub**

- Developed chat backend using Socket.IO, MongoDB, and Redis, supporting private/group chats and secure file sharing.
- Added group management, message reactions, search, and two-factor authentication for enhanced user safety.
- Technologies: **Node.js · Socket.IO · MongoDB · Redis · JWT · 2FA.**

**BdShopServer** – E-commerce Backend API

**GitHub**

- Built comprehensive RESTful API supporting user authentication, product catalog management, shopping cart, order processing, and customer review system.
- Implemented JWT authentication, role-based authorization, and rate limiting for fraud prevention.
- Developed automated inventory management system with low-stock alerts and supplier integration workflows.
- Technologies: **Express.js · MySQL · Redis · Docker · JWT.**