

MUSTAKIM BILLAH RAFI

Backend Developer

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SUMMARY

Full-Stack Developer with strong expertise in **Backend Development, Database Management, and System Design**. Experienced in building **scalable, high-performance applications** using **NestJS and Next.js**. Currently working as a Backend Developer while pursuing a BSc in Computer Science and Engineering, with a focus on distributed systems, real-time applications, and cloud deployment.

TECHNICAL SKILLS

Languages	JavaScript, Java, Python, SQL, HTML, CSS
Frameworks	NestJS, Next.js
Databases	PostgreSQL, MySQL, MongoDB
Tools & Other	Git, AWS EC2, CI/CD, Socket.io, Prisma ORM, System Design, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Backend Developer — Betopia Group (Softvence Agency)

Nov 2025 – Present

Dhaka, Bangladesh

- Developing and maintaining production-ready backend services using **NestJS, PostgreSQL, and Prisma ORM**.
- Architected and implemented **real-time features** using **Socket.io**, including chat systems and live notifications.
- Built secure and scalable **RESTful APIs** with JWT and OAuth authentication and role-based access control.
- Integrated **SSLCommerz payment gateway** for secure transaction processing and order management.
- Implemented **CI/CD pipelines** and managed deployments on **AWS EC2**, ensuring reliability and uptime.
- Collaborated closely with frontend developers and stakeholders to deliver maintainable, high-quality software solutions.

SELECTED PROJECTS

Rent On (Real Estate Rental Solution)

Key tech: React.js, Express.js, MongoDB, Tailwind, JWT

11/2024 – 12/2024

[Source Code](#)

- Developed a full-stack rental platform with **property search, tenant management**, and secure authentication.

Poultry Supply Chain Management System

Key tech: Next.js, NestJS, PostgreSQL, Prisma, JWT

08/2025 – 10/2025

[Source Code](#)

- Built a system to **streamline end-to-end poultry business operations**.
- Enabled efficient tracking of stock, orders, collections, and deliveries.

Core Concepts of Operating Systems Implementation

Key tech: C++, Java

09/2025

[Source Code](#)

- Implemented **multithreading, CPU scheduling algorithms**, and synchronization techniques.
- Solved concurrency problems including **deadlock and starvation**.

KEY ACHIEVEMENTS

- Performance Optimization:** Improved Line Following Robot performance, reducing loading time by **30%**.
- Research & Leadership:** Led a team of 4 and published a Springer paper on a **Supply Chain**

Management System for Agribusinesses.

- Hackathon Project:** Designed a supply chain prototype at **HackNSU Season 5** for RMG sector optimization.

EDUCATION

BSc in Computer Science and Engineering

Independent University Bangladesh, Dhaka

September 2021 – Expected Dec 2025

TRAINING & CERTIFICATIONS

- **Introduction to Networks — CISCO (2024):** Hands-on experience with **L2/L3 configuration**, IPv4/IPv6 addressing, and network security.

PUBLICATIONS

- **Supply Chain Management System Tailored for Agribusinesses (2024):** Engineered system design (ERD and relational schema) to eliminate intermediaries and improve transparency.