

# MUSTAKIM BILLAH RAFI

Backend and System Design Enthusiast

✉ rafisharkar144@gmail.com | [in /in/rafi-sharkar/](#) | [Portfolio](#) | 📞 01905493909

## SUMMARY

Full-Stack Developer with proper knowledge in **Backend Development, Database Management, and System Design**. Proficient in building **scalable, high-performance applications** using modern frameworks like **Next.js, NestJS, and Java Spring**. Currently **pursuing** a BSc in Computer Science and Engineering, focusing on high-availability architecture and exploring AI-driven software systems.

## TECHNICAL SKILLS

<b>Languages</b>	JavaScript, Java, Python, SQL, HTML, CSS
<b>Frameworks</b>	Next.js, NestJS, Java Spring
<b>Databases</b>	PostgreSQL, MySQL, MongoDB
<b>Tools &amp; Other</b>	Git, System Design, Data Structures & Algorithms, MS Office Suite

## SELECTED PROJECTS

### Rent On (Real Estate Rental Solution)

11/2024 – 12/2024

[Source Code](#)

- Developed a full-stack rental platform featuring **intuitive property search, tenant management**, and secure payment processing.
- Implemented streamlined communication features to facilitate hassle-free renting for users and property owners.

### Poultry Supply Chain Management System

08/2025 – 10/2025

[Source Code](#)

- Designed and deployed a web application to **streamline end-to-end poultry business operations**.
- Enabled efficient tracking of farm stock, orders, collections, and deliveries, resulting in optimized supply chain visibility.

### Core Concepts of Operating Systems Implementation

09/2025

[Source Code](#)

- Implemented solutions for core OS concepts, including **Multithreading, CPU Scheduling algorithms (e.g., FCFS, SJF, Round Robin), and Synchronization techniques**.
- Addressed and provided solutions for common concurrency problems such as **Deadlock and Starvation**.

## KEY ACHIEVEMENTS

- **Performance Optimization:** Improved code efficiency for a Line Following Robot (LFR), resulting in a **30% reduction in loading times**.
- **Team Leadership & Research:** Led a team of 4 to design a **Supply Chain Management System Tailored for Agribusinesses** and **published** associated paper.
- **Supply Chain Prototype:** Designed a functional prototype at **HackNSU Season 5** to enhance efficiency within the Ready-Made Garment (RMG) supply chain.
- **Team Leadership :** Led a team of 5 to successfully build and design an **Grocery Sales Management System** a technical paper.

## EDUCATION

### BSc in Computer Science and Engineering

Independent University Bangladesh, Dhaka, Bangladesh

September 2021 – Expected Dec 2025