

MD. ISMAIL HOSEN

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PROFESSIONAL SUMMARY

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

TECHNICAL SKILLS

Languages	JavaScript, Java, Python, SQL, HTML, CSS
Frameworks	Express.js, Spring Boot
Databases	PostgreSQL, MySQL, MongoDB
Tools & Other	Git, System Design, Data Structures Algorithms, MS Office Suite

PROJECTS

ArtBuy | React, Express.js, MongoDB, JWT

January 2025

- Developed a full-stack, scalable **marketplace** web app connecting artists and buyers, featuring **secure authentication, inventory management**, and structured order workflows.

AggriCo | React, Express.js, Mysql

April 2024

- Architected a full-stack B2B application featuring **user-role-based routing** and **strict product ownership**, utilizing unique user ID mapping to ensure **100% data integrity** across all operations.

Bookkit | Backend — Spring Boot, PostgreSQL, JPA

April 2024

- Developed a reliable, scalable real-estate web app with **layered architecture**, strict **business logic for data integrity**, and **DTO-based APIs** for maintainability.

OS Concurrency and Deadlock Resolution | C and Java

March 2025

- 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

- 1st Runner-Up, Robo Soccer – Chittagong Science Carnival 3.0:** Led team strategy and coordination in a robotics competition.
- Team Leadership & Research:** Led a team of 4 to design a **Supply Chain Management System Tailored for Agribusinesses** and **published** associated paper.
- Performance Optimization:** Improved code efficiency for a Line Following Robot (LFR), resulting in a **30% reduction in loading times**.

EDUCATION

Independent University, Bangladesh (IUB)

Expacted Dec 2025

B.Sc. in Computer Science

Dhaka, Bangladesh

PUBLICATION

Supply Chain Management System Tailored for Agribusinesses

March 2025

- Engineered a **comprehensive system design** (ERD/Relational Schema) to eliminate intermediaries and streamline farm-to-vendor transactions, enhancing transparency and market access.

CERTIFICATIONS

- CS50 - Harvard University
- CCNAv7: Introduction to Networks - Cisco
- Problem Solving (Intermediate) - HackerRank
- SQL (Intermediate) - HackerRank
- Career Essentials in Generative AI - Microsoft and LinkedIn