

# 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)** Expected 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
- Career Essentials in Generative AI - Microsoft and LinkedIn
- CCNAv7: Introduction to Networks - Cisco
- Problem Solving (Intermediate) - HackerRank
- SQL (Intermediate) - HackerRank