MD. ISMAIL HOSEN

01842279277 | ismailhosen1006@gmail.com | *LinkedIn* | *GitHub* | *Portfolio*

PROFESSIONAL SUMMARY

Aspiring **SQA Engineer** with hands-on experience in **manual testing, API Testing**, and **test documentation**. **Strong problem-solving skills** demonstrated through 250+ solved coding challenges on platforms like LeetCode and HackerRank. Combines **backend development knowledge** in Spring Boot & Node.js with a **tester's mindset** to design effective test cases, identify critical bugs, and ensure **product reliability**.

TECHNICAL SKILLS

Testing & QA: Manual Testing, API Testing (Postman), SDLC, STLC, Agile Project Management, Test Case Design, Bug Reporting
Programming Languages: Java, Python, JavaScript, SQL
Databases: PostgreSQL, MySQL, MongoDB
Full Stack: Spring Boot, Node.js, Express.js, React.js, Html, CSS
Tools and other : Git, System Design, OOP, Data structure and algorithms, MS office Suite

PROJECTS

ArtBuy ⧉ | *Web App — React, Express.js, and MongoDB*   **January 2025**
- Tested authentication, order workflow, and **API endpoints for reliability**. Validated business logic including stock changes, authorization, and order tracking. Reviewed UI/UX flows for buyer/artist dashboards to ensure **feature correctness.**

Bookkit ⧉ | *Backend — Spring Boot, and PostgreSQL*   **April 2024**
- Performed **API testing** and **validated layered architecture** for data integrity. Created test scenarios for CRUD operations, DTO validation, and error handling. Documented functional requirements and **test results using structured formats**.

AggriCo ⧉ | *Web App — React, Express.js, and mysql*   **April 2024**
- **Verified logic** for product ownership, role-based access, and user-specific operations. Conducted black-box testing to ensure **correctness** of product listing and profile flows. **Executed SQL queries for backend data verification during testing.**

OS Concurrency and Deadlock Resolution ⧉ | *C and Java*   **March 2025**
- **Implemented** and **tested multithreading**, CPU scheduling, and synchronization logic. **Identified concurrency issues** such as race conditions, deadlocks, and starvation.

EDUCATION

Independent University, Bangladesh (IUB)   **Expected Dec 2025**
B.Sc. in Computer Science   *Dhaka, Bangladesh*
Relevant Coursework: Software Engineering, Software Quality and Testing, Database Management, Systems Analysis and Design, Algorithms, Data Structures, OOP

PUBLICATION

Supply Chain Management System Tailored for Agribusinesses ⧉   **March 2025**
- **Documented core business logic**, entity behavior, and requirements. Applied structured requirement modeling and integrity rules similar to SRS standards.

KEY ACHIEVEMENTS

- **Led a 3-member team** in designing a **Supply Chain Management System** for agribusinesses; resulting paper was published and presented.
- **1st Runner-Up, Robo Soccer – Chittagong Science Carnival 3.0:** Led team strategy and coordination in a robotics competition.
- **Team Coordinator, Bangladesh Brand Forum:** Managed event operations, team members, and supported large-scale professional programs.

CERTIFICATIONS

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

References

- **Name:** Nujhat Nahar
  Position: ERP, Project Manager
  Organization: Technology Division, BRAC
  Email: nujhat.nahar@brac.net
  Phone: +8801332550261

- **Name:** Mamun Reza
  Position: Senior SQA Enginner
  Organization: BRAC IT SERVICES LTD
  Email: mamun.reza@bracits
  Phone: +8801737337078