



Hridoy Saha

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ABOUT ME

As a Computer Science and Engineering graduate, I am passionate about problem-solving, continuous learning, and building meaningful solutions. I value teamwork, responsibility, and continuous improvement, with a vision to continuously develop myself into a skilled and dependable software engineer, take on new challenges, and contribute to impactful products that create lasting value through technology.

EDUCATION AND TRAINING

Bachelor of Science (B.Sc.) in Computer Science and Engineering (CSE)

American International University Bangladesh

Expected Graduation: October 2026 | CGPA: 3.60/4.00

PROJECTS

Multi-Vendor E-Commerce Platform | Next.js, NestJS, TypeScript, PostgreSQL, Supabase

- Developed a full-stack multi-vendor e-commerce platform supporting **Customer, Seller, Rider, and Admin** roles.
- Implemented **JWT-based authentication and role-based access control (RBAC)** with secure REST APIs.
- Built product management, cart, order processing, inventory management, and seller management features.
- Integrated **SSLCommerz payment gateway** for online payment processing and transaction handling.
- Developed dedicated **Seller, Rider, and Admin dashboards** for managing products, orders, deliveries, and platform operations.
- Implemented order status management and real-time order updates to improve the order tracking experience.

Links: <https://github.com/hridoy-saha1/NexCart-Backend> | <https://nexcart-bd.vercel.app>

Super Shop Management System | C#, SQL Server

- Developed a desktop-based retail management system using **C# and SQL Server**.
- Implemented **role-based access control** for Admin and Salesman users.
- Built modules for inventory management, billing, sales processing, and stock tracking.
- Designed and managed relational database schemas using **SQL Server Management Studio (SSMS)**.
- Generated sales and inventory reports to support business operations.

Link: <https://github.com/hridoy-saha1/Super-Shop-Management-System>

Book Trading Club (Team Project) | React.js, TypeScript, MongoDB

- Collaborated with a team to develop a platform for buying, selling, and exchanging books.
- Implemented user authentication, book listings, search, trade requests, and user-to-user chat.
- Integrated an AI assistant to help users discover books and interact with the platform.
- Used MongoDB for data management and built a responsive interface with React.js and TypeScript.

Links: <https://book-trading-club-delta.vercel.app/> | <https://github.com/Souad5/Book-Trading-Club>

Building Apartment Management System | PHP, MySQL, AJAX

- Developed a web-based apartment management system using **PHP, MySQL, and AJAX**.
- Implemented **apartment, tenant, payment, and user management** functionalities.
- Used **AJAX** for dynamic data updates and **Sessions/Cookies** for user authentication and session management.

Link: <https://github.com/hridoy-saha1/Building-Apartment->

Ticket Management System | Java, Object-Oriented Programming (OOP), GUI

- Developed a desktop-based ticket management application using **Java and Object-Oriented Programming (OOP)** principles.
- Designed a graphical user interface (GUI) to allow users to create, manage, and track support tickets.
- Applied OOP concepts such as **classes, objects, encapsulation, inheritance, and polymorphism** to structure the application.

Link: <https://github.com/hridoy-saha1/Ticket-Management-System>

Bangladesh Heritage Scenery Simulation | C++, OpenGL

- Developed an interactive graphics application using C++ and OpenGL featuring multiple Bangladeshi locations, including Sadarghat, Puran Dhaka, Airport Area, and Cantonment.
- Implemented realistic environmental elements, animations, and day-to-night transition effects.

Link: https://github.com/hridoy-saha1/Open-GL_Project

PUBLICATIONS

[2026]

Deep Learning Based Skin Disease Detection Using Ultralytics YOLO26n Research Paper — Ongoing

A comparative study of deep learning-based object detection models for automated skin disease detection. The study evaluates multiple architectures based on detection performance and computational efficiency, with a focus on identifying an efficient model suitable for real-time and resource-constrained deployment.

Authors: Hridoy Saha, Md. Tanvir Hasib Fahim, Tafsir Rahman, Sanjida Afrin Bristi

CERTIFICATIONS

[Programming Hero, 05/06/2025]

Complete Web Development Course

SKILLS

Programming Languages

C# / C++ / Java (computer programming) / Python (computer programming) / Javascript (React.js)

Full-Stack Development

CSS & HTML / ASP.NET / Node.js NestJS / RESTAPI / PHP / Nextjs / JWT Tokens / TypeScript / ReactJS Library

Database

PostgreSQL / SQL SERVER MANAGEMENT STUDIO / Databases (MongoDB MySql PostgresSql) / SQL

Cloud & Deployment

Supabase / Netlify / vercel / Firebase

Testing

Api testing / MANUAL TESTING / Test Case Design / Software Quality Assurance

RECOMMENDATIONS

Name: **SAJIB HASAN**

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Name: **SAZZAD HOSSAIN**

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