MD SHAHRIAR HOSSAIN

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PROFESSIONAL SUMMARY

Backend-focused Full-Stack Developer and CS graduate with hands-on experience in MERN, SQL, and secure API architectures. I'm passionate about building efficient APIs, secure data layers, and reliable backend systems while supporting responsive front ends that ensure seamless data flow and polished user interfaces. Seeking an internship where I can apply my backend strengths and full-cycle development skills to real-world engineering challenges.

SKILLS

Web Technologies	MERN, React, Tailwind CSS, Shadcn/UI, TanStack Query, Axios
Databases	SQL (MySQL), NoSQL (MongoDB), Schema Design
Programming	JavaScript (ES6+), Python, C, CSS3, HTML5
Backend	Express js, Node js, RESTful APIs, JWT, Payment Integration (Stripe)
DevOps /Tools	Git, GitHub, Vercel, Firebase (Authentication and hosting), Docker (Familiar)
ML / DL	PyTorch, TensorFlow, Scikit-learn, Data Visualization

WEB APPLICATION PROJECTS

SurveyHub — Fullstack Survey Platform   Live Link • GitHub

MERN (Express, Node, React, MongoDB), JWT, Firebase Authentication, Shadcn/UI, Stripe, TanStack Query

- Developed a responsive survey platform with a security-first network layer and real-time voting.
- Used Axios interceptors to automate JWT injection and to centralize 401/403 error handling.
- Implemented TanStack Query and custom hooks to synchronize RBAC state, improve caching, and reduce redundant API calls.

BizNest — E-commerce Ecosystem   Live Link • GitHub

MERN (Express, Node, React, MongoDB),, JWT, TanStack Query, Stripe

- Built a responsive UI and a robust e-commerce backend with Stripe integration and RBAC.
- Implemented a centralized authentication flow using Axios interceptors for automated token management and global error handling.
- Architected a decoupled React frontend with a facade pattern and centralized hooks; applied an aggressive caching strategy to reduce redundant network requests.

Grocery Hub — Database Management System   GitHub

PHP, MySQL, Relational Database Design

- Architected a full-cycle ordering system using PHP and MySQL relational database design.
- Implemented optimized SQL queries for inventory management and user authentication, ensuring data integrity.

TECHNICAL RESEARCH & DATA PROJECTS

Multi-Omics Sarcoma Subtype Classification (Thesis)   2025 – Present

Deep Learning, Data Engineering   GitHub

- Architected a Deep Learning model specifically designed to resolve class imbalance and low-sample classification.
- Optimized high-dimensional data pipelines using Pandas and Scikit-learn to prepare complex multi-omics data for deep model training.

EDUCATION

Bachelor of Computer Science, BRAC University   2022 – 2026

120/124 Credits Completed (Thesis Defense: Expected Fall 2026)   CGPA: 3.29

Higher Secondary Certificate, Monipur High School and College   2020

GPA: 4.17