Ahsan Habib

Candidate for FYAT Mentor (Spring 2026)

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Student Information

Student ID: 22201027
Department: Computer Science and Engineering (CSE)
Status: Undergraduate (Final Year)
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Profile

I am a final-year CSE student (96+ credits, CGPA 3.71) who enjoys combining technical skills with community engagement. Beyond my academic coursework and thesis, I have professional experience building websites for NGOs and volunteer experience supporting university clubs. I have a diverse background in arts and sports, including Taekwondo training at BKSP. I am eager to use my experiences to guide new students and help them find their own path at BRAC University.

Education

Jan 2022 – Present **Bachelor of Science in Computer Science and Engineering**, *BRAC University*, Dhaka, **CGPA: 3.71 / 4.00**
- **Credits Completed:** 96+ Credits (Requirement Met: >45)
- **Residential Semester:** Completed Summer 2023 (RS63 batch) at Savar Campus

2021 **Higher Secondary Certificate (HSC)**, *Notre Dame College, Dhaka*, Dhaka, *GPA: 5.00*
Group: Science

2019 **Secondary School Certificate (SSC)**, *Satkhira High School*, Satkhira, *GPA: 5.00*
Group: Science

Professional & Co-Curricular Experience

7 Months **Web Developer (Contract)**, *ATMABISWAS (NGO)*
- Hired to design and develop the official website for "ATMABISWAS," a non-profit organization.
- Delivered a fully functional site to help them establish an online presence, meeting all client requirements professionally.

Member **General Member & Technical Support**, *BRAC University Cultural Club (BUCuC)*
- Active general member participating in club events and cultural activities.
- Voluntarily developed the backend for the club's website to help manage events and member data.

Trainee **Taekwondo Training**, *BKSP, Khulna*
- Completed a 1-month intensive residential sports training program at the Bangladesh Krira Shikkha Protishtan (BKSP).

Academic & Technical Projects

Fall 2024 **EdTech Learning Platform (Database System)**, *CSE370 - Database Systems*

- Developed a full-featured education platform similar to **buX** using **PHP and MySQL**.
- Designed a complex relational database to manage students, courses, faculty, and enrollment data.
- Implemented features like course registration, grade viewing, and material uploads, mirroring real university systems.

Spring 2025 **Resume Screening AI (Machine Learning)**, *CSE424 - Pattern Recognition*

- Built a supervised learning system to classify resumes into occupational categories using **TF-IDF vectorization**.
- Trained multiple models (SVM, Random Forest, XGBoost) and applied **SHAP Analysis** for explainability.

Summer 2025 **AI & Graphics Algorithms Repository**, *CSE422 / CSE423*

- Created and maintained a solution repository for Artificial Intelligence and Computer Graphics assignments.
- Solved complex algorithms in three languages (**Python, Java, JavaScript**) to help peers understand different implementation approaches.

Summer 2025 **SafeTails - Pet Safety Platform (Full Stack)**, *CSE470 - Software Engineering*

- Developing a pet rescue platform using **Next.js, TypeScript, and MongoDB** to help find missing pets.
- Building features like real-time location pinning, user authentication, and vet appointment scheduling.
- Created a secure multi-role system (User, Vet, Admin) to manage community alerts effectively.

Fall 2025 **Digital Voting Machine (Assembly Language)**, *CSE341 - Microprocessors*

- Developed a secure voting system using **8086 Assembly** that runs on EMU8086.
- Implemented admin login, candidate management, and a "one-person-one-vote" security feature.
- Used low-level interrupts (INT 10h/21h) to create a clean user interface for voters.

Fall 2025 **Dual-Arduino Tic-Tac-Toe (Embedded Systems)**, *CSE350 - Digital Electronics*

- Built a distributed game system using two Arduino Unos communicating via **UART protocol**.
- Designed a "Master-Slave" architecture where one board handles game logic and the other controls a 3x3 LED display.
- Solved complex I/O pin limitations by splitting tasks between two microcontrollers.

Skills

- **Tech:** MERN Stack, PHP, MySQL, Python, C++, LaTeX, Git/GitHub, VS Code.
- **Soft Skills:** Mentoring, Client Communication (NGO Project), Teamwork, Art & Creativity.
- **Languages:** Bengali (Native), English (Professional).

Honors & Awards

Arts	1st & 2nd Place in Drawing and Art Competitions (School Level)
Sports	1st Position in Annual Sports; Completed BKSP Taekwondo Training