

Nahid Hassan

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Summary

Detail-oriented Computer Science and Engineering student with strong analytical ability and problem-solving skills, experienced in translating complex technical concepts into clear, accessible communication. Proven ability in research, structured content development, data analysis, and audience-focused writing through tutoring, journalism, and project-based work. Skilled in coordinating team activities, managing content initiatives, and balancing technical insight with creativity. Seeking to contribute to a dynamic organization that values clarity, innovation, and continuous improvement.

Education

BRAC University <i>BSc in Computer Science and Engineering</i> <ul style="list-style-type: none">CGPA: 3.85Recipient of Merit-Based and Academic Scholarship	Merul Badda, Dhaka Jan. 2022 – Present
Academia <i>A'Level 4A*</i>	Lalmatia, Dhaka 2020
Academia <i>O'Level 7A*, 1A, 1B</i>	Lalmatia, Dhaka 2018

Work Experience

Product Management Intern <i>Pathao Ltd. (Rides Team)</i> <ul style="list-style-type: none">Contributed to product development for the Rides platform through feature planning, requirement gathering, and roadmap executionWorked on features including Intercity Ride Visibility, CNG Pricing Fix, and a corrective system driven by ongoing and post-trip feedbackCollaborated with engineering and design teams using Jira and Figma to define user flows, write user stories, and track development progressAnalyzed user behavior and product performance using SQL and Firebase to identify issues and drive data-informed improvementsAssisted in backlog management and sprint planning while incorporating user feedback to improve ride experience and platform usability	Jan. 2026 – Present Dhaka, Bangladesh
Student Tutor <i>BRAC University</i> <ul style="list-style-type: none">Guided students in the courses Discrete Mathematics (CSE230) and Numerical Methods (CSE330) for four consecutive semestersProvided academic support to 500+ students, helping improve course performance and reduce learning gapsAssisted the course instructors in evaluating quiz and assignment scripts and provided constructive feedback to students to strengthen learning outcomes	Jun. 2024 – Sept. 2025 Dhaka, Bangladesh
Content Writer <i>ATZ Technologies</i> <ul style="list-style-type: none">Created SEO-friendly blog posts and web content to strengthen the company's digital presenceResearched keywords, wrote articles optimized for SEO, and updated content on WordPressHelped improve blog visibility, contributing to a 15% increase in website traffic during tenure	July 2021 – Oct. 2021 Dhaka, Bangladesh

Extra-Curricular Activities

Contributing Writer and Journalist <i>BracU Express</i> <ul style="list-style-type: none">Covered campus events and cultural stories, producing clear and engaging articles read by 1,000+ students across BracU platformsWrote feature pieces and opinion articles backed by interviews with 20+ students and faculty membersDelivered multiple published works that contributed to a notable rise in student readership engagement and earned consistently positive editorial feedback	Mar. 2024 – Jun. 2025 BRAC University
Assistant Secretary of Marketing and Communications <i>BracU Sports Club</i> <ul style="list-style-type: none">Created content and promotional materials for tournaments and online events to boost engagementLed and coordinated a 20+ member content team, ensuring consistent communication and timely output	Sept. 2024 – Jun. 2025 BRAC University

Volunteer Experience

Core Volunteer

Dec. 2024

NASA Chief Astronaut Event

BRAC University, Merul Badda

- Selected by the CSE department as a Core Volunteer to manage logistics and on-ground coordination for a high-profile event attended by 500+ students, faculties, and dignitaries
- Led volunteer operations to ensure smooth crowd management and event execution
- Supported communication between organizers, speakers, and attendees to maintain a seamless event flow

Projects

Bracu Diary | *Next.js, TypeScript, FastAPI, MongoDB, Vercel*

Academic Project

- Developed a unified student platform with secure authentication, course resource directories, event management, and activity tracking for system designs course
- Implemented a responsive, user-friendly interface to streamline access to academic tools and improve student workflow
- Integrated a Retrieval-Augmented Generation (RAG) chatbot for enhanced user assistance
- Live Demo: <https://bracu-diary-frontend-repo-gjjq.vercel.app/sign-in>

AI-Powered Plagiarism Checker | *Laravel, SQLite, Python*

Academic Project

- Created an AI-driven plagiarism detection system using Python NLP models to analyze text similarity and flag duplicated content
- Integrated a clean Laravel UI with SQLite storage to deliver fast, accurate, and user-friendly plagiarism reports

Reflectix | *Python, OpenGL*

Academic Project

- Developed a multi-level 2D DX-ball-style game using Python and OpenGL for the CSE423 Computer Graphics course
- Implemented object reflections, collision mechanics, and progressive difficulty levels to demonstrate applied graphics concepts

Multi-Class Text Classification System | *Python, TensorFlow, Scikit-learn*

Academic Project

- Built and compared machine learning and deep learning models for multi-class text classification on a 340K+ question-answer dataset spanning 10 categories
- Evaluated BoW, TF-IDF, GloVe, and Skip-gram embeddings, with the best result achieved by a BiLSTM at approximately 72.5% accuracy and a strong F1-score
- Benchmarked Logistic Regression, Naive Bayes, RNN, GRU, and LSTM architectures with optimized hyperparameters

Achievements

Semi-Finalist: Marico's Over the Wall Season 04 (2025)

Finalist: Intra Business Competition Vitalizers, BRAC University (2023)

Finalist: International Youth Math Challenge (IYMC) (2018)

Daily Star Award for Academic Excellence: IGCSE (2019)

Edexcel High Achievers Award: IGCSE (2019)

Technical Skills

Skills: Writing, Content Writing and Management, Coding, Team Collaboration, Communication

Languages: Python, Java, C, SQL

Tools: Microsoft Office (Excel, Word, PowerPoint), WordPress, Canva, Jira, Trello, Power BI