Niloy Ahsan

✉ niloyahsan.official@gmail.com | ☎ +8801889997565
 @niloyahsan1 | 🎓 @Scholar | 🔗 @niloyahsan1

EDUCATION

Master of Science in Computer Science and Engineering Oct. 2025 – Present
BRAC University; Data Science Specialization *Dhaka, Bangladesh*

Bachelor of Science in Computer Science and Engineering Feb. 2021 – Feb. 2025
BRAC University; CGPA: 3.72/4.00 *Dhaka, Bangladesh*

TEACHING EXPERIENCE

Undergraduate Teaching Assistant Oct. 2023 – Jan. 2025
CSE Department, BRAC University *Dhaka, Bangladesh*

- Course Taken: Programming Language Java (CSE110) & Electronic Devices and Circuits (CSE251)
- Provided consultation 15 hours/week, assisted students in labs and graded assignment copies.

MNS Department, BRAC University *Dhaka, Bangladesh*

- Course Taken: Linear Algebra & Fourier Analysis (MAT216).
- Provided consultation 15 hours/week, assisted students in theory and graded assignment copies.

EXTRA-CURRICULAR ACTIVITY

Senior Executive at IT & Marketing Department Mar. 2024 – Jul. 2025
BRAC University Communication and Language Club (BUCLC) *Dhaka, Bangladesh*

- Managed IT infrastructure and digital promotion strategies for all major club events and campaigns.
- Collaborated with executive teams to streamline event marketing through social media, email and oncampus outreach.

Volunteering Experiences 2023 – 2025
Various Events, BRAC University *Dhaka, Bangladesh*

- BRAC University's 16th Convocation | 🔗
- Speakathon – State-level public speaking competition (BUCLC) | 🔗
- International Conference on "Language Metamorphosis" (BRAC Institute of Languages) | 🔗

PROJECTS

BRACU Research Hub | *Laravel, MySQL, PHP, HTML, CSS, JS* | Link Apr. 2025 – Present
- Developed a platform to help students find and join faculty research projects.
- Used Laravel MVC framework with MySQL for backend data management.
- Implemented search and filter features for research topics and faculty profiles.

Heart Disease Prediction System | *Scikit-learn, Numpy, Pandas, Matplotlib* | Link May 2025 – Jul. 2025
- Built ML classifiers to assess heart disease risk from clinical data.
- Conducted exploratory data analysis and optimized model performance.

Diabetes Prediction System | *Scikit-learn, Numpy, Pandas, Matplotlib* | Link Apr. 2024 – May 2024
- Implemented ML models to predict diabetes risk using patient health data.
- Performed data pre-processing and visualization to enhance model accuracy.

Healthy Habits Diet Planner | *Laravel, MySQL, PHP, HTML, CSS, JS* | Link Feb. 2024 – May 2024
- Built a diet planning web app using Laravel with MVC architecture.
- Enabled users to track, manage and log daily meals and nutrition goals.
- Used MySQL for data storage and implemented user authentication.

2D Ball Runner Game | *Python, OpenGL* | Link Nov. 2023 – Dec. 2023
- Developed a 2D arcade game focused on avoiding falling obstacles and collecting power-ups to increase score.
- Used Python OpenGL for rendering game graphics and handling user input.

Study Help Resource Hub | *HTML, CSS, JavaScript* | Link Aug. 2023
- Developed a static website offering all course materials for BRAC University students.
- Organized resources by course and semester to assist juniors in their academic preparation.

Technical Skills

Languages: Python, Java, C, PHP, SQL, JavaScript, HTML, CSS
Frameworks: Laravel, React, Node.js, Bootstrap, WordPress
Developer Tools: LaTex, Git, MySQL, Xampp, VS Code, Figma
Libraries: Scikit-learn, Pandas, NumPy, Matplotlib
Platforms & OS: Linux, Arduino, Raspberry Pi
Soft Skills: Time Management, Leadership, Communication, Team Collaboration

Research Work

Quantum-Enhanced Tax Revenue via A-Challan: ML, LLMs, and QML Approaches | Accepted Dec. 25
Fields: Quantum ML, Tax Technology

Adaptive SDN Load Balancing with Machine Learning and Time-Domain Round Robin (TDRR) Scheduling | Preprint 2023 – 2025
Field: SDN, Network Optimization, Machine Learning

Poster Presentation on Enhancing Hybrid Network Efficiency: An SDN-Based Approach to Load Balancing and Performance Evaluation at 11th NSysS 2024 | Poster Dec. 2024
Field: SDN, Network Optimization

Data Searching On Cloud Storage: A Comparative Analysis Nov. 2023
Field: Cloud Computing / Cloud Storage Systems

Certificates

Intermediate SQL – DataCamp	2025
Certificate ID: 2d084fabe0c29e0fe235dfad498575db2e270f91	*Online*
Introduction to Git – DataCamp	2025
Certificate ID: 48ce91465e926b496c074f004eb66f42349333ba	*Online*
Understanding Artificial Intelligence – DataCamp	2025
Certificate ID: 324df1ee24faa9707763aa6930fe887216c885a1	*Online*
SQA Career Launchpad for Absolute Beginners – Ostad	2025
Certificate ID: C31889	*Online*
Certified Online UX-UI Designer Course – Bdcalling Academy	2024
Certificate ID: bdCV&C#161	*Online*

Honors & Awards

BSc High Distinction — BRAC University (CGPA: 3.72/4.00)

Dean's List & Vice Chancellor's List — BRAC University (7 semesters)

Merit-based Scholarship — BRAC University (2 semesters)

References

1. **Dr. Jannatun Noor Mukta**
   Associate Professor, Dept. of CSE
   Director, Data Science Program
   United International University
   Email: jannatun@cse.uiu.ac.bd
   Relationship: Thesis Supervisor

2. **Mr. Mohammad Rafiqul Islam**
   Assistant Professor, Chinese Language
   BRAC Institute of Languages (BIL)
   BRAC University
   Email: rafiqul.islam@bracu.ac.bd
   Relationship: Course Instructor