Sad Yeamin Sayem

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LinkedIn | Github

Professional Experience

Undergraduate Teaching Assistant/Student Tutor [CSE dept. , Course :CSE110: Introduction to Programming] | **BRAC University** | **Dhaka, Merul Badda**   July 2025 – Present

- Selected through a competitive process involving CGPA-based shortlisting, a written test(Rank 18 out of 300), and a final interview.
- Assisted the course instructor in teaching core programming concepts using Java.
- Provided one-on-one academic support, guiding students in debugging, logic development, and object-oriented programming.
- Facilitated lab sessions and responded to student queries to enhance the overall learning experience.
- Recognized for effective communication, patience, and a supportive, student-friendly mentoring style.

Secretary of Finance and Event Management | **BRAC University Arts and Photography Society** | **Dhaka, Merul Badda**   January 2023 – March 2025

- Planned and executed art exhibitions, photo walks, workshops, and inter-university events in collaboration with core teams.
- Coordinated sponsorship proposals, negotiated with vendors, and managed stakeholder relationships to ensure successful event delivery.
- Aligned financial strategies with event objectives in close coordination with the executive board.
- Promoted student engagement and participation in the visual arts community through strategic event planning and outreach.

Education

Bachelor of Science of Computer Science   January 2022 – Present

BRAC University, Dhaka, Bangladesh

- Current CGPA: 3.86 out of 4.00
- Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming,Machine Learning, Neural Networks , Natural Language Processing,Computer Vision, Software Engineering, Bioinformatics
- Academic Achievements: Merit based Scholership,Selected as Undergraduate Teaching Assistant; active member of university clubs and actively working on few research projects

Skills

- **Programming Languages**: Python, Java, JavaScript(basic), html , php , MySql
- **Web Development**: MERN Stack (MongoDB, Express.js, React.js, Node.js), REST APIs
- **Machine Learning & AI**: Scikit-learn, TensorFlow, Keras, Hugging Face Transformers
- **Data Science & Analysis**: Pandas, NumPy, Matplotlib, Seaborn, LDA, Clustering
- **Computer Vision**: OpenCV, U-Net, Attention U-Net, Medical Image Segmentation

- **NLP**: BERT, Sentence Transformers, RAG (Retrieval-Augmented Generation), NLTK
- **Tools & Platforms**: Git/GitHub, Google Colab, Jupyter, Streamlit, VS Code, Kaggle
- **Soft Skills**: Communication, Team Collaboration, Problem Solving, Time Management
- **Other**: LaTeX, Google sheet , Adobe premier pro

Projects And Related Work

Resume Matcher & Career Helper

Python, Streamlit, Hugging Face Transformers, Sentence Transformers

☐ https://resume-matcher-programophile.streamlit.app/

- Built a Streamlit-based AI tool to semantically match resumes with job descriptions using sentence-transformers.
- Integrated Hugging Face's mistralai/Magistral-Small-2506 model to generate personalized resume improvement suggestions.
- Enabled real-time matching and feedback for career enhancement and resume tailoring.

CGPA Calculator for BRAC University Students

React.js, JavaScript, HTML, CSS, Vercel

☐ https://programophile.github.io/CGPA-Calculator-For-BRAC-University-Students-BRACU/

- Developed a web-based CGPA calculator tailored to BRAC University's grading system and semester structure.
- Designed an interactive UI that dynamically adds/removes courses and calculates GPA with real-time feedback.
- Ensured responsiveness across devices and tested for accuracy in weighted credit-hour calculations.

Text Clustering using Contrastive BERT

PyTorch, Hugging Face, Scikit-learn, TweetEval Dataset

☐ https://github.com/programophile/Text-Clustering-using-Contrastive-Bert---Neural-Networks-Project-cse425-spring25-BRACU-

- Designed a BiLSTM-based contrastive learning model for emotion-based tweet clustering.
- Compared performance against BERT embeddings and TF-IDF + PCA baselines using silhouette and Davies-Bouldin scores.
- Visualized clustering using t-SNE and applied extensive hyperparameter tuning for optimization.

Hospital Management System (Admin, Doctor, Patient)

PHP, MySQL, HTML, CSS, JavaScript

☐ https://github.com/programophile/HospitalManagement-Doctor-Patient-Admin-communation--PHP-HTML-CSS

- Developed a full-stack hospital portal supporting role-based access for doctors, patients, and administrators.
- Implemented appointment scheduling, medical record management, and patient-doctor messaging.
- Built with vanilla PHP and styled using custom CSS for a responsive user interface.

Face Detection using OpenCV

Python, OpenCV

- Created a real-time face detection app using Haar Cascade Classifiers and OpenCV.
- Supported webcam-based detection and image upload functionality with bounding box overlays.
- Lightweight and suitable for introductory computer vision demos and offline facial detection.

Line Break and Paragraph Break Remover

Python

☐ https://programophile.github.io/Line-break-and-paragraph-break-remover/

- Developed a CLI tool that removes unnecessary line breaks and paragraph breaks from raw text input.
- Useful for cleaning OCR outputs, web-scraped text, and pre-processing documents for NLP tasks.
- Supports batch processing and formatted output for downstream use.

Leet2Git – Auto Commit LeetCode Submissions

Python, GitHub API, Automation

☐ https://github.com/programophile/Leet2Git

- Built a CLI tool to automatically detect completed LeetCode submissions and push them to GitHub.
- Organized code by problem name, language, and topic for easy retrieval and tracking of progress.
- Designed to simplify competitive programming portfolio creation for recruiters.

Hospital Nurse & HR Management System *(MERN Stack)*

MongoDB, Express.js, React.js, Node.js, JWT, Tailwind CSS

☐ https://github.com/programophile/Hospital-Nurse-Hr-Management---MERN_PROJECT

- Developed a full-featured hospital admin panel to manage nurses, HR staff, and departments.
- Implemented secure authentication (JWT), role-based access, and dynamic form-based operations.
- Built responsive UI with React and Tailwind; backend APIs handle user and data management securely.