


SHIHAB MUHTASIM

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 Dhaka, Bangladesh.

PROFILE

I am a dynamic problem-solver with a passion for exploring new frontiers in technology. As a natural leader, I thrive in challenging environments and am skilled at handling multiple responsibilities with a calm, solution-oriented approach. Whether I am coding, making robotics projects, or pursuing my interests in music production, meditation or sports, I am driven by a deep sense of curiosity and a commitment to making a positive impact on the world.

CURRENT EDUCATION

BRAC University, Dhaka, Bangladesh

CSE|| 2021-Present

- Current CGPA: 4.00
- Final semester student

ACHIEVEMENTS

- Been in Dean's and Vc's list for nine Semesters, BRAC University
- Receiving 100% Merit Scholarship Based on Academic Results
- Led my team to Semi-finals of Hult Prize 22-23, BRAC University
- Won RS-59 Cup Runners up 2022, BRAC University

PROJECTS

Rent Koro: Car Rental Website (Laravel, PHP, SQL)

Implemented Admin Panel and Vendor Management, integrating secure login/logout mechanisms and a robust payment gateway, significantly boosting operational efficiency and user experience. [Reference: <https://github.com/shihabmuhtasim/RentCar>]

Wearwise: Clothing rental website using Laravel, PHP, SQL, HTML, CSS

I specialized in Admin Panel and Vendor Management, leveraging expertise in SQL, Laravel, PHP, HTML, and session management to ensure secure login/logout and create an intuitive admin & vendor interface. I also led my team, ensuring efficient, on-time delivery. [Reference: <https://github.com/shihabmuhtasim/wearwise>]

Green Closet: Ecommerce website using PHP, MYSQL, CSS, HTML

I made the admin panel and its features, including login/logout, session management and payment gateway integration. My expertise in PHP, MySQL, and HTML was instrumental in delivering a secure and efficient solution, significantly enhancing the user experience. [Reference: <https://github.com/shihabmuhtasim/Online-Clothing-Store-Website>]

2D Games using OpenGL in Python

Engineered a variety of 2D games in Python, utilizing OpenGL for graphics rendering. Projects include Space Shooter, Diamond Catcher, and more, focusing on interactive gameplay, complex graphical elements, and user input handling. [Reference: <https://github.com/shihabmuhtasim/2D-Games-using-OpenGL-in-Python>]

Weather predicting machine learning model

I developed machine learning models, including Decision Tree, Random Forest, Gradient Boosting, and Naive Bayes, for weather prediction. I conducted effective dataset preprocessing, model analysis, model selection and comparison, emphasizing precision and recall metrics in python, to provide accurate weather forecasts. [Reference: <https://github.com/shihabmuhtasim/Machinelearning-Model-Weather-Prediction-Rain-Snow->]

NLP Movie Review Classification

Developed a sentiment analysis algorithm using Natural Language Processing, implementing a variety of models to classify movie reviews as positive or negative. [Reference: [GitHub](#)]

Emu8086 Assembly Password Strength Checker

Implemented a password validator in Assembly language, utilizing emu8086 to analyze and categorize password robustness based on multiple security criteria [Reference: <https://github.com/shihabmuhtasim/2D-Games-using-OpenGL-in-Python>]

Smart Scape: Arduino Home Automation system

Created a smart home Arduino robotics project with 4 different feature modules focusing on safety and user convenience in C++. [Reference: <https://github.com/shihabmuhtasim/Smart-Scape>]

An endless photo jump runner game

I designed and developed an endless runner game using JavaScript and HTML. The game allows users to customize characters with their own photos and challenges them to jump over obstacles while controlling their chosen image. [Reference: <https://github.com/shihabmuhtasim/Photo-Jump---A-Personalized-Endless-Runner-Game>].

Multiple software opener

Created a Python-based GUI application that enables users to run multiple applications at once, simplifying their workflow. Users can select and add applications, view the list, and launch them with one click, saving time and effort. [Reference: <https://github.com/shihabmuhtasim/Software-Opener->].

WORK EXPERIENCE

Student Tutor (2023-Present)

CSE department, BRAC University

In my position as a student tutor I carefully review assignments and give feedback. I also provide guidance and assistance to students during their lab sessions, aiming to support their learning and progress. Additionally I give 12 hours of consultation to any student that needs help.

Head of Web Development (2023-Present)

Institute of Young Talents (IYT)

My responsibilities include overseeing the web development team at IYT, focusing on guiding and contributing to significant website projects. My efforts align with IYT's mission to document and transform hidden talents into impactful content for the benefit of a wider audience.

Committee Member & Tutor (2022)

Project ORKO, BRAC

Selected as one of seven individuals from 1000 students to participate in the pilot program at BRAC University's Project ORKO. Our responsibilities included designing, developing, and contributing to training modules for this program. Additionally, I individually created two study planners and played a vital role in enhancing six other planners. [Reference: <http://bit.ly/bracu-orko>]

Executive of Content Planning (2022-2023)

Hult Prize (2022-23), BRAC University

Produced the official theme song for Hult Prize, featured at official events. Managed audio content for Hult's marketing initiatives, overseeing mixing and mastering. Also, actively participated in the competition, advancing to the semi-finals.

TECHNICAL SKILLS

Programming Languages:	Python, PHP, R, Assembly, C
Web Development:	HTML, CSS, JavaScript, Laravel (PHP framework), MySQL, SQL, React
Data Analysis and Visualization:	Pandas, Matplotlib, NumPy, scikit-learn
Version Control :	Git, GitHub, Arduino, Pi
Software Development:	Object-Oriented Programming, Tkinter, Latex, OpenGL
Technical Tools:	Anaconda, Proteus, LT Spice, MS Word, PowerPoint, Excel, Adobe Lightroom
Music and Media:	Fl studio, Windshare Filmora, Adobe premier pro

EDUCATION HISTORY

Dhaka City College

HSC (A-level equivalent) || Science 2020

GPA: 5.00

Security Printing Corporation High School

SSC (O level equivalent) | Science || 2018

GPA: 5.00