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MD DULAL HOSSAIN

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Summary

An enthusiastic and innovative CSE graduate from Green University of Bangladesh with hands-on experience in AI, ML, Blockchain, and software development. Proficient in Python, Java, and modern web technologies, with practical exposure to project development and management. Completed internships at Nixtec Systems and Wizard Software, contributed to skunkwork projects, and actively participated in tech conferences and research programs. Strong academic background complemented by certifications and diverse extracurricular engagements. Passionate about solving real-world problems through AI/ML innovation and continuous learning.

Education

Green University of Bangladesh, Dhaka, Bangladesh   *Oct 2021 – Sep 2025*

B.Sc. in Computer Science and Engineering

- CGPA 3.60 out of 4 (Passing Years 2025)

Moulana Saifuddin Ahiya Degree College Shahzadpur, Sirajgonj   *June 2017 – May 2020*

Higher Secondary School Certificate (HSC)

- GPA 4.17 out of 5 (Passing Years 2020)

Jamirta High School Jamirta, Shahzadpur, Sirajgonj   *January 2012 – March 2017*

Secondary School Certificate (SSC)

- GPA 4.41 out of 5 (Passing Years 2017)

Experience

Applied Researcher   *October 2024 - Running*

Nixtec Systems, Bangladesh & Netherlands (Remote)

Skills: Blockchain, Artificial Intelligence (AI), Machine Learning (ML) & Data Science

Research Assistant to Professor Dr. Ahsan Habib   *August 2024 & Running*

Honored to join as Research Assistant to Prof. Dr. Md. Ahsan Habib. Excited to coordinate research, manage academic tasks, & support impactful projects while learning, growing, & contributing under his inspiring mentorship in my academic journey.

Internship   *December 2024 - April 2025*

Wizard Software & Technology Bangladesh Ltd., Dhaka, Bangladesh (On-site)

Skills: Automation, Robotic Process Automation (RPA), Microcontrollers, Embedded Systems, Data Governance

Instructor at EduTock (AI, ML, DM & DL)   *June 2025 – September 2025*

Conducting training sessions and workshops on Artificial Intelligence, Machine Learning, Data Mining, and Deep Learning.

Designing content, delivering hands-on projects, and mentoring learners to build real-world Python-based applications.

Working with Team Super Nova   *September 2024 - May 2025*

AlphaFitNess is a Django-based e-commerce platform for EduTech & Fitness, using Python, PostgreSQL/MySQL, JavaScript, and REST APIs. It offers scalable, integrated solutions for managing courses, workouts, and subscriptions efficiently..

Project of : Prevention of Duplicate Certificates in Bangladesh   *November 2024 - September 2025*

As project leader, I managed the team, coordinated tasks, ensured deadlines, and facilitated effective communication.

Nixtec System, (Bangladesh & Netherlands)

Trainee (Python & Django Framework)   *September 2024 - April 2025*

GUB EDGE Digital Skills Development Program, Dhaka, Bangladesh (On-site)

Skills: Python (Programming Language), Web Development, Software Development, Information Technology Infrastructure

Skills

Programming Languages	P ython | Java | HTML | CSS | PHP | JavaScript | Bash | Assembly language | C++ | C
Software Development	Agile Methodology | Scrum Methodology | Waterfall Methodology | Android Studio
Frameworks & Libraries	React (Web Development) | Matplotplib | Numpy | Pandas (Data Science & ML)
Languages	*Mother Tongue:* Bengali *Academic:* English *Intermediate:* Urdu & Hindi

Honors or Awards and Achievements

Research Publication 01
March 2025

"Development of Blockchain-based Framework for Certificate Verification & Fraud Detection"

Research accepted at the 7th IVPR 12th ICIEV (7th Intl. Conf. on Imaging, Vision and Pattern Recognition (IVPR);

and 12th Intl. Conf. on Informatics, Electronics Vision (ICIEV).Linkedin Post link

Research Publication 02
July 2025

"Development of Blockchain-based Framework for Certificate Verification & Fraud Detection"

Research Presentation at IEEE CS BDC Summer Symposium 2025 Linkedin Post link

AI+ Prompt Engineer™: Level 1
AI CERTs™ Learner Portal

Earned AI+ Prompt Engineer™: Level 1 certification from AI CERTs™ Learner Portal, demonstrating foundational

skills in prompt engineering for AI model interaction and optimization.

Prompting with Microsoft Copilot
Microsoft

Gained hands-on experience in Prompting with Microsoft Copilot, learning to generate, refine, and optimize

AI-powered outputs for productivity, content creation, and task automation.

Certification - Automation Anywhere (Essentials Certification)
April 2025

Completed the Essentials Certification covering the fundamentals of Robotic Process Automation (RPA)

using Automation Anywhere.

Badge Achievements – Microsoft Copilot and AI Skills
June 2025

Earned the "Prompting with Microsoft Copilot" badge and completed 11 learning modules, including content creation,

prompt crafting, summarization, editing, AI for nonprofits, and productivity with Microsoft 365 Copilot.

Champion
January 2019

Badminton Tournament Rajshahi.

Runner up
February 2018

Badminton Tournament Shahzadpur Upazila, Sirajgonj

Honor Roll
2018

Bangladesh Scouts Sirajgonj Division

Projects

BanglaHaat (Familiar Daraz)
Developed using React.js, Node.js & MongoDB

BanglaHaat is an online marketplace offering seamless shopping with features like product listings, user profiles, admin tools,

secure payments via Stripe, and a responsive interface built using React, Express.js, MongoDB, and JWT authentication.

Desktop Voice Assistant (Familiar Siri, Alexa)
Developed using Python

Designed an interactive system with speech recognition and text-to-speech features. Utilizes Tkinter for GUI,

performing tasks like providing time, playing music, and accessing weather updates. Project GitHub link

Intelligent Review Analyser
Developed using Python

The Intelligent Review Analyzer uses SVM and BERT models to classify customer reviews as positive, negative,

or neutral, achieving 79% accuracy for automated sentiment analysis. Project GitHub link

E-Commerce Website: SDM Dulal PC Shop
Developed using HTML, CSS, JavaScript, PHP, and MySQL

Created a robust platform with user registration, product selection, cart management, and an admin panel.

Includes a unique repair service feature based on purchase history. Project GitHub link

PET Management System
Developed using HTML, CSS, JavaScript, PHP, and MySQL

A web-based system to manage pet information, appointments, and medical records,

developed using PHP, MySQL, and Bootstrap for IDP2 course. Project GitHub link

Banking System (Familiar Nogod)
Developed using online technologies

Automated manual banking processes with functionalities for balance checking, fund transfer, transaction

record maintenance. Enhances accessibility & accuracy in customer information retrieval. Project GitHub link

Group Chat Application (Familiar Whatsapp)
Developed in Java.

This is a Java-based client-server system that supports real-time messaging, image sharing, and emoji integration,

providing intuitive interface using JavaFX for seamless communication between multiple users.Project GitHub link

School Management System(Familiar GUMS)
Using DBMS and Java

Provides modules for student addition, admin management, fee tracking, result processing,

and staff administration. Centralized platform for organized school management. Project GitHub link

Application of Book Store(Familiar Retailer apps)
Developed using Assembly Language

Book store application with user-friendly interfaces for various genres. Demonstrates efficient

inventory management and transaction processing in low-level programming. Project GitHub link

Bridge Construction (Padma) - Engineering Drawing Lab Project
Using AutoCad

Padma Bridge project designs a 150-meter bridge section using AutoCAD for safety & connectivity. Project GitHub link

Conversion (Data Communication Problems)
Developed using various techniques

Optimizes bit-level encoding, character manipulation, and parity checks to enhance digital communication

integrity and security. Contributes to improved information exchange systems. Project GitHub link

4 Bit Binary Multiplier
Using Tinkercad

Designed a 4-bit binary multiplier circuit with logic gates and sequential elements. Employed truth tables,

Boolean expressions, and Karnaugh maps for optimization and validation. Project GitHub link

Additional Projects on GitHub
Using Multiple Language

Beyond the listed projects, I have developed 30+ additional applications and systems.Visit my GitHub to explore

hands-on work in web development, data science, machine learning, blockchain, and more. GitHub link

Extra-Curricular Activities

Latex & MS Office
Expert

Proficient in creating professional reports and documents using LaTeX.

Skilled in MS Office tools for documentation, data handling, and presentations.

Documentation or Administrative Roles (Remote)
Nixtec System, (Bangladesh & Netherlands)

Managed documents, attendance, and reports for academic activities.

Coordinated event schedules and ensured clear communication and proper documentation.

Spokesperson of GUB Transport (Lead)
March 2025 & Running

Serving as the Spokesperson of GUB Transport, leading communication and coordination efforts within the Green University

Transport Committee to ensure smooth operations, address student concerns, and improve transport services.

Keynote Speaker
Webinar - Cyber Existence of a Graduate's Professional Skills

Delivered a keynote on enhancing graduates' digital presence via LinkedIn, GitHub, & freelancing at GUB webinar. Post link

Volunteer
Cyber Security and Cloud Systems

Organized Cyber Security seminar, ensuring smooth coordination and engagement.

Volunteer
Unlocking the Power of Data: A Beginner's Guideline to Data Analytics

Assisted with event coordination, participant management, and technical support during the

"Unlocking the Power of Data" beginner-level data analytics webinar at GUB.

Volunteer (Anchor)
Unlock your AI potential with Agent X!

Hosted the closing ceremony, coordinated sessions, and engaged the audience as Anchor for GUB's

Enhancing Digital Government and Economy (EDGE) Program final event.

Volunteer (Anchor)
Closing Ceremony GUB EDGE Program

Hosted the closing ceremony, coordinated sessions, and engaged the audience as Anchor for GUB's

Enhancing Digital Government and Economy (EDGE) Program final event.

Bangladesh Scouts (Member)
June 2017 – May 2019

Actively participated in Bangladesh Scouts, developing leadership, teamwork, and community service skills through various

national and local activities, social initiatives, and training programs at Moulana Saifuddin Ahiya Degree College.

Event Organizer (Leader)
January 2018 & January 2019

Led the event organization at Moulana Saifuddin Ahiya Degree College, coordinating teams, managing logistics, and ensuring the successful execution of college programs and activities.

Home Tutor (English Medium)
December 2021 - Running

I am a home tutor specializing in English medium education at Oxford International School, Dhaka (Student).

Photography

Photography captures moments and emotions, freezing time into evocative images.

References

Professor Dr. Md. Ahsan Habib (Tareq)

Chairperson & Professor, Department of CSE, GUB

Director, Center of Continuing Education, GUB

Immediate past chair, IEEE CS BDC

Green University of Bangladesh (GUB)

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Relation with Applicant: Research Supervisor

Dr. Muhammad Abul Hasan

Chairperson Department of ADS, GUB

Former Associate Chairperson, Dept of CSE, GUB

Green University of Bangladesh (GUB)

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Relation with Applicant: Course Instructor