

MAHMUDA SHARMIN

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Educational Background

- Missouri University of Science and Technology, Rolla, MO, USA
PhD in Materials Science and Engineering
January 2025 – On Going
- University of Dhaka, Bangladesh
Master of Business Administration in International Business – 2023
Internship: Grameen Bank
- Daffodil International University, Bangladesh
Bachelor of Science in Computer Science and Engineering – 2019
Thesis: A general framework and approach to identify crime pattern using machine learning
- Bir Shreshtha Noor Mohammad Public College, Bangladesh
Higher Secondary Certificate
Science – 2014
- Mohammadpur Preparatory Higher Secondary School, Bangladesh
Secondary School Certificate
Science – 2012

Project Experiences

1. Library Management System - Spring 2016
The course project for Object-Oriented Programming (Java) was a team effort. We successfully developed a library management system. With this system, anyone can access information about any book, while administrators can keep track of issued and returned books.
Tools and Platform used: NetBeans, Java
2. Student Management System - Spring 2017
The course project on Database Management System was a collaborative effort. This system enables administrators to track students and ensure their presence.
Tools and Platform used: Code::Blocks, C, XAMPP, MySQL.
3. Class Routine App - Fall 2017
The course project for Wireless Programming (Android) was completed through teamwork. This app allows any student to access information such as the day, time, and room number of their courses.
Tools and Platform used: Android Studio.
4. Bangladeshi Website - Spring 2018
The course project for Web Engineering involved creating a static website. The website showcases Bangladesh, including its culture, seasonal fruits, cakes, and other famous foods from our country.
Tools and Platform used: Notepad, JavaScript, HTML, CSS, PHP.
5. Automatic Sensor Based Lighting - Summer 2018
This project was completed as part of the Embedded System course. Using the Arduino UNO Board, Breadboard, LDR, LM35, PIR sensor, and Relay Sonar Sensor, we developed a system that automatically turns off lights and other electrical equipment if no one is in the room/house for more than 10 minutes.
Tools and Platform used: Arduino, Breadboard, LDR, LM35, PIR sensor, Relay Sonar Sensor, LED Lights, and Jumper Cables.

Technical Skills

- Programming Language : C, HTML, CSS, Java Script, PHP, Python
- Algorithm and Data Structure Office Tools : Overleaf, Microsoft Office (Word, Excel and PowerPoint), Google (Docs, Slides, Drawings, Forms, Sites, and Keep)
- Design and Editing Tools : Adobe Creative Cloud (Photoshop, Illustrator, Premiere Pro, After Effects)

- Operating System : UBUNTU-OS (Basic), Windows-OS (Advanced)
- Embedded System : Arduino(Basic), AVR microcontroller(Basic)
- Networking : Cisco Packet Tracer (Basic)
- Database : MySQL, XAMPP
- Development Tools : Code blocks, NetBeans, Emu8086, Android Studio
- Data Visualization : Grapher

Working Experiences

- Daraz Bangladest LTD, Dhaka, Bangladesh (Sep 2022 - Dec 2022)
Client Experience Executive
Essentially, I dealt with customers' purchase-related issues. I would engage in conversations with customers, listen to their problems, and provide solutions accordingly.
- Grameen Bank, Dhaka, Bangladesh (June 2022 - August 2022)
Intern Officer
Managed all aspects of general banking, including achieving deposit targets and preparing loan proposals, while ensuring high customer satisfaction. Promoted and tailored banking products to meet diverse customer needs and recommended the most suitable solutions based on their requirements.
- Desh TV, Dhaka, Bangladesh (Jan 2022 - Mar 2022)
Digital Content Editor
I used to edit the digital content for YouTube and Facebook in such a way that it is easy for the public to understand and tried to impart any information or knowledge through that content.
- ServiceEngine Limited, Abdul Monem Group, Dhaka, Bangladesh (Sep 2019 - Jan 2021)
Executive (Ad Operation)
The main focus was digital marketing. I used to build ads for clients. There is a platform called Simpli.fi through which I used to place ads for multiple devices in the USA along with some technical settings like when, where and how long the ads will run.
- Consumer Complain Center, National Consumer Rights, Bangladesh (Oct 2018 - Aug 2019)
Call Center Executive
I used to make consumers of our country aware of their rights. If consumers have been a victim of fraud by purchasing goods from a vendor, I guided them on how to take actions and practice their rights.

Workshop

1. Attended a day long hands-on workshop on Fundamentals of Deep Learning from NVIDIA. (September 14, 2024)
Certificate : <https://learn.nvidia.com/certificates?id=cfpFlcPcSE2MJpGk222zpA>

Publications

1. Sharmin, M. and Kazi, Md.A. (2018) Crime Data Mining: A general framework and approach to identify crime pattern using machine learning. <http://dspace.daffodilvarsity.edu.bd:8080/handle/123456789/2880>
2. Sharmin, M. (2022) An Internship Report On GRAMEEN BANK. <https://rb.gy/dycyl>

Award and Co-curricular Activities

- Got full waiver on tuition fees in Bachelor degree from Daffodil International University (2014 - 2019)
- Participated as a dancer of Indian segment at ICC Cricket World cup held in Bangladesh (2011)
- Former Handball athlete at Bangladesh Handball Federation (2006 - 2012)
- Former Volleyball athlete at Dhanmondi Women's Complex (2008 - 2012)
- Participated and got place in 100 meter race, 300 meter race, relay race, long jump, high jump.