

# Maneesha Rani Saha

GRADUATE IN COMPUTER SCIENCE AND ENGINEERING, BUET

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in linkedin.com/in/maneesha-rani-saha-b0576a19b/ | 📄 Maneesha Rani Saha



## Personal Profile

I am a fresh graduate of the Department of Computer Science and Engineering (CSE), Bangladesh University of Engineering and Technology (BUET). I was an active participant in different academic and extra-curricular activities aiming to explore new interests. My research interest areas include **Systems, Security, Networking, Software Engineering** and **HCI**. I hope to create a positive influence with my technical skills and knowledge in the society.

## Education

### Bangladesh University of Engineering and Technology

BSc in Computer Science and Engineering

- **CGPA: 3.78/4.00 (3.86 in 4<sup>th</sup> year)**

Dhaka, Bangladesh

April 2019 - June 2024

### Udayan Uchcha Madhyamik Bidyalaya

Higher Secondary Certificate

- Passed with **GPA 5.00/5.00** with Board Scholarship in Talentpool Category

Dhaka, Bangladesh

2016 - 2018

## Projects

### CareerConnect: A Web Platform Connecting Job Seekers and Employers

**Project Backend** ↗ **Project Frontend** ↗

BUET, Software Development Sessional Course, Level-4/Term-1

June 2023 - September 2023

Developed a comprehensive web platform with the following features:

- **Job Service:** Job Posting service for employers, Job short-listing service for job seekers
- **Application Service:** Automatic CV generation from profile information and CV submission service for job seekers for certain posts.
- **Applicant Filtering Service:** CV filtering service for employers from submitted applications using relevant skill matching of the applicant and the job description.
- **Technical Skills:** NodeJS, ReactJS, PostgreSQL, Service Oriented Architecture

### HocusPocusHomeAssistant: A Smart Home Assistant Software

BUET CSE FEST Hackathon 2022, API and Cloud Services Category

August 2022

Developed a comprehensive project for the BUET CSE Fest Hackathon 2022 (API and Cloud Services Category). Integrated features such as **Speech-to-Text Recognition, Music Recommendation, News Parsing, Search, Route Planning, TV Show Recommendation, and Current Weather Update** using NodeJS. Implemented **external API integration, built custom APIs, and utilized cloud services**.

- **Technical Skills:** NodeJS, External API integration, Own API Implementation, Cloud Service Integration

### AlumNET: A Social Networking Platform for Alumni of BUET

BUET, Database Sessional Course, Level-2/Term-2

December 2021 - February 2022

Developed a comprehensive networking platform current and ex students of BUET to be connected with one another by writing blogs, posting about job opportunities, selling merchandise and souvenirs, creating groups and events.

- **Technical Skills:** NodeJS, Bootstrap, Oracle DBMS, Firebase

### KenaKata: An Online Shopping Site

Therap JavaFest 2021

June 2021 - August 2021

Developed a comprehensive shopping website with User service, Shop service, Cart service, Order service and Complain service.

- **Technical Skills:** Spring Boot, Bootstrap, PostgreSQL, Firebase

## Stroke Prediction using Neural Network

BUET, Machine Learning Sessional Course, Level-4/Term-2

January 2024 - February 2024

Developed a machine learning model for stroke prediction using neural networks. Conducted data preprocessing to clean and prepare the dataset, implemented sampling techniques to balance class distribution, and trained a neural network model to achieve the best ROC-AUC score for stroke prediction.

- **Technical Skills:** Machine Learning, Neural Networks, Data Preprocessing, Data Sampling, ROC-AUC Evaluation

## Research

### Dependency and Priority Based Multi-Queue IoT Task Scheduling in Heterogeneous Systems

Dept. of CSE, BUET

Undergraduate Thesis | Supervisor: Dr. Rezwana Reaz

June 2023 - June 2024

- Understanding workflow of IoT based tasks in fog computing platform.
- Implementing a scheduling algorithm for inter-dependent, priority based and delay-sensitive tasks using multi-queue heterogeneous systems.
- Simulating the proposed system in Java similar to CloudsimPlus

### An Empirical Study of Gendered Stereotypes in Emotional Attributes for Bangla in Multilingual Large Language Models

Dept. of CSE, BUET

Supervisor: Dr. Rifat Shahriyar

April 2024 - June 2024

- Examining gender bias and stereotypes in emotion attribution in state-of-the-art LLMs for Bangla language.
- Elucidating the intricate societal relationship between gender and emotion.

**\*\*Accepted in 5th Workshop on Gender Bias in Natural Language Processing @ACL2024**

## Work Experience

### MySoft Limited

Virtual Intern

May 2023 - June 2023

During the virtual training program, I have learned Data pre-processing, Multidimensional data modeling, Online Analytical Processing (OLAP), Aggregation, correlation, association, clustering, prediction on data and Data visualization by solving real-life problems using anonymous data.

### IEEE Computer Society BUET Student Branch Chapter

Vice-Chairperson (Activity)

March 2023 - March 2024

Assistant General Secretary

May 2022 - February 2023

Media Committee Coordinator

February 2021 - May 2022

## Skills

<b>Programming Languages</b>	C, C++, Java, Python, HTML/CSS, JavaScript, SQL
<b>Frameworks</b>	Spring Boot, NodeJS, Bootstrap, JQuery, ReactJS
<b>DBMS</b>	Oracle, PostgreSQL, MySql
<b>Security Tools</b>	Autopsy, Wireshark, NMap, Gophish
<b>Graphic Designing</b>	Adobe Illustrator, Adobe XD, Figma, Canva
<b>Miscellaneous</b>	LaTeX, Microsoft Office, Microsoft Excel, Microsoft PowerPoint, Firebase, Git
<b>Soft Skills</b>	Team management, Problem-solving, Public Speaking, Creative Writing

## Achievements

- 2023 **Winner**, BWCSE Project Showcasing
- 2022 **1st Runners Up (API Category)**, BUET CSE FEST Hackathon
- 2022 **Finalist**, Bangladesh Blockchain Olympiad
- 2021 **2nd Runners Up**, Therap JavaFest
- 2021 **10th Position**, National Girls' Programming Contest
- 2021 **1st Runners Up**, BWCSE Programming Contest
- 2018 **2nd Runners Up**, 4th NMST National Biology Olympiad
- 2017 **9th Position**, 8th Bangladesh Chemistry Olympiad
- 2017 **Finalist**, Bangladesh Stockholm Junior Water Prize