Mehreen Tabassum Maliha

☐ 01772431025 | @ mehreenmaliha14@gmail.com | ⬛ LinkedIn | ⬛ GitHub | ⬛ Portfolio

EDUCATION

Bangladesh University of Engineering and Technology — Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering; **GPA: 3.61/4.00** — Feb 2020 – March 2025

Barishal Govt. Women's College — Barishal, Bangladesh
Higher Secondary School Certificate; **GPA: 5.00/5.00** — 2017 – 2019

SKILLS

Programming Languages:	C/C++, Java, Python, JavaScript, SQL
Technologies:	HTML5, CSS, Bootstrap, MySQL, NodeJS, Oracle(SQL), React, Flutter, Hugo, MongoDB
Softwares:	Adobe Illustrator, Adobe Photoshop, Code::Blocks, IntelliJ IDEA, VS Code, Sublime Text, JavaFX Scene Builder 2.0, Navicat Premium 16

EXPERIENCE

Software Engineer, OPlusDojo
Project: Elora — Healthcare Resource Management System — October 2025 – Present
- Full-stack healthcare platform with AI-powered needs assessment, voice transcription, and resource recommendation for Community Health Workers
- Tech Stack: TypeScript, React, Python, PostgreSQL, Pinecone, AWS

Trainee Engineer, Nifty Coders
Training Program — August 2025 – September 2025
- Gained hands-on experience with C#, .NET, Angular, Flutter, Docker, and Kubernetes
- Worked with project management tools and followed agile development practices

PROJECTS

Bhromor-Chatbot | *GitHub*
- Built an AI-powered chatbot using React, Node.js, and OpenRouter API to deliver contextual responses via large language models.
- **Technologies Used :** React.js, Node.js, OpenRouter API, MongoDB

Multilabel Facial Expression & Intensity Detection | *GitHub*
- Developed a deep learning model (ML-CNN, ResNet50) to classify multiple emotions and estimate intensity from facial images.
- **Technologies Used :** Python, TensorFlow, Keras, Scikit-learn

DiaMate | *GitHub*
- Created a healthcare management mobile app enabling diabetic patients to track metrics, book appointments, and interact with doctors.
- **Technologies Used :** Flutter, Javascript, HTML/CSS, Firebase Realtime Database, Azure, Node.js

FoodXpress | *GitHub*
- Developed a food delivery platform supporting multi-restaurant orders, improving user flexibility and experience.
- **Technologies used:** ReactJS, NodeJS, Postgres

FoodnPleasure | *GitHub*
- Developed a restaurant management system supporting four restaurants, enabling customers to place online orders and reservations with integrated special offers
- **Technologies Used :** HTML/CSS, Bootstrap, Oracle, NodeJS

AWARDS & ACHIEVEMENTS

- **BWCSE Project Show-Casing Competition:** Achieved 3rd place in the BWCSE Project Showcasing Competition, demonstrating innovation, technical expertise, and problem-solving skills. The project was evaluated based on creativity, implementation, and impact. (2023)
- **Micro-controllers & Micro-processors Sessional Project:** Secured 1st place as a team of 5 in the Microcontrollers & Microprocessors Sessional Project. Designed and implemented an innovative racing car game, demonstrating expertise in embedded systems, circuit design, and microcontroller programming. (2022)

RESEARCH EXPERIENCE

Undergrad Thesis
November, 2023 – March, 2025

WiFi Received Signal Strength (RSS) Based Automated Attendance System
Designed an attendance system leveraging WiFi signal data; applied k-NN classification to detect presence.

VOLUNTARY EXPERIENCES

Bangladesh Women in Computer Science and Engineering(BWCSE) 2024 - Feb, 2025
President

IEEE Computer Society BUET Student Branch Chapter May, 2024 - Feb, 2025
Design Committee Chair

Buet Self Defense Club July, 2024 - Feb, 2025
Vice President

Buet Origami Club July, 2024 - Feb, 2025
Vice President

Charcoal - BUET Artista Society Oct, 2024 - Feb, 2025
Associate General Secretary

Bangladesh Women in Computer Science and Engineering(BWCSE) 2023 - 2024
General Sectretary

IEEE Computer Society BUET Student Branch Chapter 2023 - 2024
Program Committee Coordinator

Bangladesh Women in Computer Science and Engineering(BWCSE) 2022 - 2023
Content Creator