

Farzana Chowdhury

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farzanachowdhuryportfolio.my.canva.site

Education

Islamic University of Technology(IUT), Gazipur, Dhaka *Jan 2020-June 2024*
Bachelor of Science in Computer Science and Engineering

- CGPA: 3.49/4.0

Viqarunnisa Noon School and College, Bailey Road, Dhaka *Jan 2018-August 2019*
Higher Secondary School Certificate (HSC), Science Group

- GPA: 5.00/5.00

Relevant Coursework

Calculus, Data Structures, Database Management Systems, Algorithms, Artificial Intelligence, Machine Learning, Web Programming, Mobile Application Development, Human Computer Interaction

Technical Skills

Languages: C, C++, Python, Java, JavaScript, Dart, PHP

Web and App Development: HTML, CSS, ReactJS, NodeJS, Dart, Flutter, Android Studio, Webflow

Database: MySQL, Firebase

Tools and Frameworks: JavaFX, SFML, Numpy, Figma, Lucidchart, \LaTeX (Overleaf)

Industrial Experience

Industrial Training on Flutter App Development *May 2023-June 2023*
Battery Low Interactive Ltd.

- Acquired foundational knowledge of Flutter for mobile app development
- Developed projects using the Flutter framework, including a quiz app, timer app, and expense tracker.

Research Experience

BanglaNER using FewShot Learning

Undergraduate Thesis

- Conducted research on Bangla Named Entity Recognition (NER), addressing the limited prior work in Few-shot Learning within this domain.
- Focused on reducing dependency on large-scale datasets, given Bangla is a low-resourced language.
- Experimented with various encoders, including mBERT and BanglaBERT to evaluate their performance.

Projects

Benzene Board | *Structured Programming Lab Project* *Github : Benzene Board*

- Led a team of 3 in designing and implementing a two-player board game inspired by Hexxagon.
- Developed the game concept and built the project from scratch, creating the board layout by

calculating cell positions using mathematical formulas.

- Introduced a unique 'surprise cell' feature, allowing players to gain or lose two cells upon landing on it.
- **Tools Used:** C++, SFML

UML Tool | *Visual Programming Lab Project*

Github : UML Tool

- Designed and implemented a UML diagramming tool capable of creating class diagrams, activity diagrams, and flowcharts, with support for up to 50 boxes at a time.
- Proposed and initiated the development of a feature to generate code automatically from diagrams, laying the groundwork for future implementation.
- Developed the backend functionalities and created the user interface, contributing significantly to the overall system development.
- **Tools Used:** JavaFX, CSS

CSS Niffler | *Web Programming Lab Project*

Github: CSS Niffler

- Led a team to develop an interactive website that simplifies learning CSS concepts like Flexbox and Grid through instant visualization in a game-like environment.
- Took charge of designing and implementing the core functionalities, ensuring the platform provided seamless real-time visualization.
- **Tools Used:** PHP, HTML, CSS, Javascript

VisioLab | *Object Oriented Design Lab Project*

Github: VisioLab

- Developed the binary search tree structure for the application designed to visualize various data structures.
- Implemented methods to insert and search nodes, using formulas to calculate and display the precise positions of new nodes in real-time.
- Enhanced user interaction by highlighting all matched nodes during search operations, improving visual clarity and understanding for users.
- **Tools Used:** C++, SFML

Extracurricular Activities

Flood Relief Collection Volunteer

- Contributed to the collection and sorting of essential supplies for flood-affected communities in 2024, as part of a relief initiative organized by high school students at my school.

Event Organizer – Freshers' Welcome & Acoustic Event

- Designed posters and contributed to venue decoration for university events, enhancing visual appeal and attendee experience.

Contests and Competitions

- Gamejam Participant – Collaborated in a team to develop a game using Unity.
- UI/UX Design Contest Participant – Designed the interface of an app based on a given theme in a group of three under strict deadline
- Participated in several other coding and design contests, gaining valuable experience in competitive environments.