
Umme Fahmida Trisha

Computer Science Undergraduate | Full-Stack Developer | Data & Knowledge Modeling Enthusiast
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Career Objective

I am a motivated and quick learner who loves to take on new challenges. I aim to contribute my skills, creativity, and dedication to a team where I can make a real impact and keep developing both professionally and personally.

Education

B.Sc. in Computer Science and Engineering (CSE)

University of Chittagong, Bangladesh

January 2022 - Ongoing

6th Semester

Skills

Programming Languages:

C, C++, Java, Python, JavaScript, PHP, Dart, HTML, CSS, Assembly (EMU8086)

Web & Mobile Development:

React.js, Express.js, Flutter, Firebase, APIs, Prisma (ORM)

Database Technologies:

MySQL, PostgreSQL, Virtuoso

Data Modeling & Warehousing:

Star Schema, Snowflake Schema, ER Modeling, RDF, OLAP Cubes, QB4OLAP, SPARQL, Knowledge Graphs

ETL & BI Tools:

Pentaho Data Integration (PDI), RDF, SPARQL

Networking & System Tools:

Wireshark, Cisco Packet Tracer, Docker, IoT (Internet of Things)

Development Tools & Platforms:

Git & GitHub, LaTeX, Prisma, EMU8086, Microsoft Office

Operating Systems:

Windows, Linux (including Debian)

Other Skills:

Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Development Life Cycle (SDLC), Team Collaboration, Problem-Solving, Communication

Projects

Accounting Management System

A comprehensive system to manage accounts, transactions, and reports. Developed using PHP, JS and MySQL.

School Management System

A full-fledged management system for schools, including student information, grades, and staff management. Built with HTML, PHP, JS and SQL.

Basic OS Design - 539 Kernel

A simple operating system designed as part of a university project, focusing on Bootloader, kernel functionalities and process management.

Digital Logic Design (DLD) Projects

Various digital logic design projects focused on creating circuits and systems using logic gates and flip-flops.

Flutter Mobile Applications

Basic mobile apps demonstrating front-end design and functionality using Flutter.

Focus: UI/UX, interactivity, and Dart programming.

Research Cell Management System

A web-based application to automate research proposal submission, review, and approval for university departments. Developed using React.js, Express.js, and Prisma.

Dengue Hematology Knowledge Graph

Co-authored a semantic RDF-based OLAP model (DengueHematologyKG) to analyze dengue hematology data. Implemented using RDF, OWL, QB4OLAP, SPARQL, and Virtuoso.

Achievements & Competitions

1st Runner-Up (Girls' Category) – Intra-department Programming Contest, Department of CSE, University of Chittagong, 2022

Participant – Intra-department Programming Contest, *Engineering Day* (jointly organized by EEE & CSE Departments), University of Chittagong

Participant – Inter-University Programming Contest, CUSS (Chittagong University Scientific Society), 2024

Participant - Various online programming contests and time-bound challenges to improve algorithmic thinking and coding speed