

Tahiya Zareen Hiya

▸ CSE Undergraduate ▸ Frontend Developer ▸ UI/UX Designer

A passionate CSE undergraduate with hands-on experience in frontend development and UI/UX design. Skilled in building responsive web pages and implementing designs using modern web technologies. Focused on improving usability, layout structure, and clean interface development through academic and personal projects.



✉ tahiya zareen.07@gmail.com 📍 Dhaka, Bangladesh

Developer

UI/UX Designer

Research Enthusiast

Tech Driven

Programmer

● Education

◆ **Bachelor of Science**
2023 – 2026 (Expected)

B.Sc. in Computer Science and Engineering

▸ University of Asia Pacific

CGPA: 3.63/4.00 (as of Jan 2026) | 4th Year 1st Semester

◆ **HSC**
Passing Year: 2021

Higher Secondary Certificate

▸ Mohammadpur Preparatory School and College

GPA: 5.00 / 5.00

◆ **SSC**
Passing Year: 2018

Secondary School Certificate

▸ Mohammadpur Preparatory School and College

GPA: 4.94 / 5.00

● Technical Skills

Frontend

HTML5 · CSS3 · JavaScript · React · Next.js · Framer Motion

Backend

Python (Django) · Java (OOP) · C (Procedural) · MySQL · PostgreSQL

Design & Workflow

Figma (UI/UX) · Webflow · Git · GitHub · VS Code · PyCharm · Linux

AI/ML

Scikit-learn · PyTorch · Tensorflow · Matplotlib · Numpy · Panda · JSON Data Handling · API Integration · FAISS · OCR

Management

Agile Methodologies · Technical Documentation · Team Coordination

Practical Development Skills

Debugging · Code Structuring · Version Control Workflow · Basic Accessibility Awareness

● Research Interests

- Machine Learning (ML)
- Computer Vision
- Generative AI
- Natural Language Processing (NLP)
- Large Language Models (LLMs)
- DeepLearning (DL)
- Federated Learning (FL)
- Internet of Things (IoT)

● Research Experience - *Ongoing*

Research Title: *“A Lightweight Multi-Modal Tiny LLM Framework for Privacy-Preserving Academic Assistance in University Environments”*

- Design and develop a lightweight multi-modal Tiny LLM framework aimed at providing privacy-preserving academic assistance in university environments
- Integrated and experimented with open-source language models including **Qwen** and **BLOOM** to evaluate semantic understanding and classification performance in academic query settings
- Implement a structured pipeline for query processing, combining retrieval, classification, and controlled response generation for improved contextual accuracy
- Develop privacy-focused mechanisms to reduce exposure of sensitive academic content during model inference and response generation
- Explore model efficiency techniques for **CPU-friendly** deployment and low-resource execution scenarios
- Evaluate model behavior under different prompt and dataset conditions to assess robustness, interpretability, and consistency of outputs
- Focus on balancing semantic understanding with privacy constraints to ensure safe and meaningful academic assistance outputs

● Communication & Personality

Communication	Active Listener · Clear Communicator · Presentation Skills · Technical Writing · Cross-functional Collaboration
Personality	Detail-Oriented · Fast Learner · Creative Thinker · Deadline-Driven · Team Player · Adaptable · Dedicated · Analytical Thinking
Languages	English — Proficient Bangla — Native Hindi — Conversational

● Projects

UAP CSE Website Collaborative Project

- Contributed as a programmer to the academic institutional web presence for the CSE Department.
- Collaborated as a team to build and maintain a structured, accessible web layout.

WatchCraft Academic Project

- Specialized project focusing on creative web implementation with modern frontend technologies.
- Demonstrated proficiency in translating design concepts into functional, responsive interfaces.

Firefighting and gas detection robot Academic Project

- Designed a compact autonomous workflow integrating environmental sensing, motion control, real-time alert IOT system and safety-oriented robotic decision execution in simulated critical scenarios
 - ESP32 microcontroller • MQ-2 gas sensor • IR Flame sensor

Behance Portfolio Personal Design Portfolio

- Curated and published UI/UX prototypes and visual design works.
- Showcases design thinking, wireframing, and high-fidelity prototyping skills using Figma.

● Profile & Portfolio

GitHub	github.com/Tahiya07
LinkedIn	linkedin/Tahiya
Portfolio	Tahiya.view