Shafaq Arefin Chowdhury

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Education

B.Sc. in Computer Science and Engineering (2021–2025) — Completed
BRAC University
CGPA: 3.40

- **Best Thesis Award**, Fall 2024
- Thesis: TRI-FED RKD — Tri-layer federated learning with knowledge distillation using Spiking Neural Networks
- **Link:** dspace.bracu.ac.bd/handle/10361/25284

Skills

- **Frontend:** HTML, CSS, Tailwind, React (Redux, Router, Context API, Query)
- **Backend:** Node.js, Express.js, JWT, Middleware, Session/Cookies
- **Languages:** C, C++, JavaScript, Python
- **Software Engineering Practices:** Agile, Scrum, SDLC, MVC
- **Database:** MongoDB, MySQL (ER/EER modeling, Normalization)
- **Tools:** Git, GitHub, VS Code, Postman, Supabase
- **Other Frameworks:** OpenGL, TensorFlow
- **Soft Skills:** Fluent in English & Bangla, Teamwork, Fast learner

Projects

PizzaFast (React, Redux Toolkit,Tailwind) — Code
Modern pizza ordering app that lets users select items, place orders using location, and track delivery in real time.

WanderMap (React, Context API) — Code
Lets users mark places visited on a world map, take personal notes, and reflect on past travels visually.

MovRankApp (React) — Code
A movie app to search, rate, add to list, and manage favorite films with basic interactivity.

CompeteHub (Node.js, MongoDB, EJS) — Code
Online platform for hosting and managing competitions with judging, submissions, and feedback.

Flappy Showdown: Pipe Escape (Python, OpenGL) — Code
Flappy Bird-style game featuring pipe navigation and an unlockable boss fight sequence.

These are some of my notable projects. Other completed or ongoing projects are available in my github repo.

Certifications

- **Machine Learning Specialization** — Coursera (Andrew Ng), Link
- **Neural Networks and Deep Learning** — Coursera, Link