

Hasnat Rafi Uddin

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Bangladesh — Open to Remote

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TECHNICAL SKILLS

Languages: Python, JavaScript, SQL

Frontend: React, Tailwind CSS, HTML5, CSS3, React Router

Backend & Tools: Node.js, MongoDB, Supabase, REST APIs, Git, GitHub, Vite

Machine Learning & CV: PyTorch, TensorFlow, YOLOv8, MediaPipe, OpenCV, CUDA

EDUCATION

B.Sc. in Computer Science

BRAC University

2021 – 2025

Bangladesh

Higher Secondary Certificate (HSC)

BCIC College

2020

Bangladesh

Secondary School Certificate (SSC)

Noakhali Zilla School

2018

Bangladesh

PROJECTS

Movie Mania — *React, Vite, React Router, TMDB API, CSS* — GitHub

- Built a responsive movie browsing application using React and the TMDB API, featuring live search, genre-based filtering, trending sections, and a favorites system with localStorage persistence for improved user experience.

GitHub User Finder — *JavaScript, HTML5, CSS3, GitHub REST API* — GitHub

- Developed a GitHub user search application with real-time suggestions, detailed profile views, repository listings, and responsive UI enhancements including skeleton loaders for smoother interactions.

Kanban Board — *JavaScript, HTML5, CSS3* — GitHub

- Built a Trello-style Kanban board with drag-and-drop task management, priority-based labeling, dark mode support, and persistent state management using localStorage.

Helmet & License Plate Detection — *Python, PyTorch, YOLOv8, OpenCV* — GitHub

- Implemented a YOLOv8-based computer vision system to detect helmet violations and identify license plates, supporting real-time traffic surveillance scenarios.

UNDERGRADUATE THESIS

Mitigating Domain Shift in Skin Cancer Recognition with Dropout Consistent Federated Averaging

- Reproduced three state-of-the-art skin lesion classification models.
- Designed an EfficientNet-based architecture with SE attention.
- Converted centralized training pipelines to federated learning.
- Identified and resolved dropout-induced zero dilution in FedAvg.
- Implemented mask-aware aggregation to improve robustness.