

Rafi Hassan Chowdhury

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github.com/Grumpy-Frog

Portfolio: grumpy-frog.github.io/rufi.github.io/

About Me

I am a fresh graduate who enjoys collaborating with teams in a positive manner. With prior experience working with diverse teams, I possess a strong enthusiasm for Software Development, Data Science and Machine Learning. I also enjoy participating in competitions such as Hackathons, Datathons, Machine Learning Olympiads.

Education

Islamic University of Technology

B.Sc in Computer Science and Engineering

2020 - June, 2024

CGPA: 3.66 out of 4.00

Experience

Battery Low Interactive

Baridhara J Block, Dhaka

- **Position:** Game Development Intern.

May 2023 - July 2023

MetaFour Asia Ltd.

1 Sonargaon Janapath, Dhaka

- **Position:** Junior Software Engineer (Java).

August 2024 - Present

Skills

- **Programming Languages:** C, C++, C#, Java, Python, Assembly, R
- **Libraries/Frameworks :** Django, OpenCV, OpenGL, JavaFX
- **Tools/Platforms:** GitHub, Jira, Linux
- **Databases:** SQL, MySQL, SQLite
- **Game Engine:** Unity, Unreal Engine
- **System Software:** Android Studio

Honors & Awards

1. **Champion of IUT ICT Fest 2024 Datathon: ASR for Regional Dialects** powered by Bengali Ai. **(Team Leader)**
2. **Best Notebook Winner of IUT ICT Fest 2024 Dataton: ASR for Regional Dialects** powered by Bengali Ai. **(Solo)**
3. **Champion of ML OLYMPIAD BANGLADESH 2024** by Tensorflow. **(Team Leader)**
4. **Champion of WEB-OFF** by IUT Computer Society, 2023. **(Team Leader)**
5. **Finalist** in National Blockchain Olympiad Bangladesh 2023. **(Team Leader)**
6. **Award of Recognition** in International Blockchain Olympiad 2023. **(Team Leader)**
7. **Finalist(Kaggle Public 1st)** in "UIU Bhashamul: Bengali Regional IPA Transcription", 2024 powered by Bengali Ai. **(Team Leader)**
8. **Finalist** Yobo AI Hackathon 2024. **(Team Leader)**
9. Programming Contest- **7th** in Intra IUT Coderush 1.0, 2023.
10. Capture The Flag- **8th** in Intra IUT Coderush 1.0, 2023.

Co-Curricular Activities

1. C++ and Python instructor for pre-level students.
2. Machine Learning instructor
3. IUT Computer Society member
4. Volunteer at IUPC ICT Fest 2024

Projects

Untitled Survival Game [GitHub Link](#) [Itch.io Link](#)

- **Language:** C++, GLSL
- **Responsibilities:** Team Leader, Project Initiator, Developer
- **Framework/Technologies:** OpenGL, OpenAL, Blender, MagicaVoxel
- **Description:** A 3D Horror puzzle game with timed maze solving. Randomized mazes with maze generation algorithm, grass enemies, and AI bots using A* pathfinding.

Untitled Tank Game [GitHub Link](#)

- **Language:** C++
- **Responsibilities:** Team Leader, Project Initiator, Developer
- **Framework/Technologies:** SFML, Adobe Photoshop, GIMP
- **Description:** A 2D shooter game with PvP and co-op modes. Players level up, fight AI, and grab power-ups like speed boosts. Handcrafted animations and unique assets for a fresh experience.

Anda Lorai FPS Game [GitHub Link](#) [Itch.io Link](#)

- **Language:** C#
- **Responsibilities:** Team Leader, Project Initiator, Developer
- **Framework/Technologies:** Unity, Blender, Photon Network Engine
- **Description:** A 3D FPS multiplayer shooter game where players control eggs, engaging in battles to score points within a set time; Photon Engine (PUN) is utilized for networking.

Virtual Classroom [GitHub Link](#)

- **Language:** Python, JavaScript, C++
- **Responsibilities:** Team Leader, Project Initiator, Full Stack Developer
- **Framework/Technologies:** Django, SQLite, Agora RTC, OAuth
- **Description:** An educational website connecting teachers and students, featuring Google Authentication, classroom creation, assignments, MCQ exam grading, video meetings with screen sharing, and knowledge-sharing articles. Users manage profiles and passwords.

Untitled-Music-Player [GitHub Link](#)

- **Language:** Java
- **Responsibilities:** Team Leader, Project Initiator, Developer
- **Framework/Technologies:** JavaFX, MySQL
- **Description:** A feature-rich Music Player with database storage, playback speed adjustment, and metadata-based sorting. Unique features include a Frequency Spectrum Visualizer, URL playback, and customizable themes using CSS files.

DoodleIt: Image to Doodle [GitHub Link](#)

- **Language:** Python
- **Responsibilities:** Team Leader, Project Initiator, Project Researcher
- **Framework/Technologies:** Generative Adversarial Network/ PyTorch
- **Description:** A machine learning project that employs a Pix2Pix Generative Adversarial Network (GAN) to create doodles based on an input image.

IUTCS Website [GitHub Link](#) [Website Link](#)

- **Language:** Python, JavaScript
- **Responsibilities:** Team Leader, Project Initiator, Full Stack Developer
- **Framework/Technologies:** Django, PostgreSQL
- **Description:** A website for IUTCS, where they can host intra/inter-university events, facilitate participant registration, and showcase organization updates, blogs, and achievements.

IUTRS Website [GitHub Link](#)

- **Language:** Python, JavaScript
- **Responsibilities:** Team Leader, Full Stack Developer
- **Framework/Technologies:** Django, PostgreSQL
- **Description:** This website was made for IUT Robotics Society