IMAMUL HOSSAIN RAFI

My Portfolio
https://github.com/Hack-it-Rafi
bsse1323@iit.du.ac.bd

45/3, Kayettuli, Chankharpul, Dhaka, Bangladesh
+8801568271071

EDUCATION

| 2021–Present | **UNIVERSITY OF DHAKA** Institute of Information Technology (IIT)
BSc. in Software Engineering | CGPA–3.58(Upto 5th Semester) |
| 2018–2020 | **NOTREDAME COLLEGE, DHAKA**
HSC, Science | GPA–5.00 |

PROJECTS

- **Algorithm & Logic**:

  - ***1. Pac-Man***   Github
    - A basic implementation of a famous game.
    - No use of any library or STL functions.
    - Applied A* path finding algorithm, Random path selector algorithm

    Technologies: C++

  - ***2. GoMoku***   Github
    - A basic implementation of a famous game, made with python.
    - Applied A* heuristic, Minimax&Alphabeta-pruning algorithm

    Technologies: Python

- **Fullstack Projects:**

  - ***1. Purchase Management System***   Web-Link
    - A web app to manage purchase logs for "Ujjal Flour Mills" (Client).
    - "Package by Feature" architecture is followed in backend.

    Technologies: React, Typescript, Tailwind, Node.js, Express, MongoDB and Vite.

  - ***2. Transport Document Management System***   Web-Link   Github
    - A website to manage vehicle document status and log.
    - "Package by Feature" architecture is followed in backend.

    Technologies: React, Typescript, Tailwind, Node.js, Express, MongoDB, Firebase.

  - ***3. Market-Place Website (Khujoo)***   Web-Link   Github
    - A website for basic marketplace works.
    - MERN stack website.

    Technologies: React, Tailwind, Node.js, Express, MongoDB, Firebase, Javascript and Vite.

- **Gaming Projects:**

  - ***1. Mars-Explorer***   Github
    - A game that simulates the challenges and discoveries of Martian exploration.
    - Players navigate the red planet's terrain, solve scientific puzzles, and uncover its mysteries and get real time understanding of Mars.

    Technologies: Unity, C#, Python

  - ***2. Kook-Wa***   Download   Github
    - Game on a survival journey on a magical Island of Mysteries.
    - Explore lush terrain, forage for mushrooms, and brew powerful potions. Use spells to fend off monsters and survive escalating challenges.

    Technologies: Unity, C#

- **Blockchain Projects:**
  - *1. Portech*   Web-Link   Github
    - A hybrid blockchain based platform that optimizes foreign trades & shipping supply-chain document workflows, seamless secure transactions

    Technologies: Next, Solidity, Request-Network, Svelte, Typescript, Tailwind

SKILLS

- **Frontend**: React | Typescript | NextJS | Tailwind | Javascript | Google-Firebase | MaterialUI | 3JS
- **Backend**: NodeJs | ExpressJs | RestAPI | FastAPI
- **Database**: MongoDB | Sqlite3 | PostgreSQL | Prisma
- **Languages/Tools**: C | C++ | Python | Java | C# | Unity | npm | Docker | Nginx
- **BlockChain Development**: EtherJs | Solidity | Request-Network

ACHIEVEMENTS

2016	**CHAMPION,** Cumilla Regional Round Bangladesh Math Olympiad
2017	**SECOND RUNNERS UP + National Math Camp,** National Round Bangladesh Math Olympiad

EXPERIENCE

1/7/2024–31/12/2024

U.S. Embassy Dhaka, Department of Justice

WPA Technical Support Intern
- Conducted Research on Gamification, Crime Reporting, Crowdsource.
- Designed and currently developing an application to educate Bangladeshi and International Youth about wildlife and biodiversity conservation.

1/11/2023–Present

Brahmanbaria Science Club

President
- Been a member for 8 years.
- Hosted 1 Physics Olympiad, 1 Chemistry Olympiad, 1 Biology Olympiad across Brahmanbaria district.
- Hosted regional round of National Junior Science Olympiad.
- Organized 48 sessions, 6 workshops, many online training programs.

28/4/2017–28/11/2022

Annada Math Club

Vice–President
- Founding member of the club.
- An initiative to help the student to get prepared for Bangladesh Math Olympiad
- Hosted 1 Math Olympiad across Brahmanbaria district.

Reference

DR. B M MAINUL HOSSAIN,DIRECTOR AND PROFESSOR,

Institute of Information Technology (IIT), University of Dhaka

Email: mainul@iit.du.ac.bd

Mr. Tahlil Abser

Lead Blockchain Engineer, GRLA DAO LLC & Founding Blockchain Engineer, Leveor

Email: tahlil@ieee.org   Contact: +88 01521–330801