

EDUCATION

2021-Present	UNIVERSITY OF DHAKA Institute of Information Technology (IIT) BSc. in Software Engineering CGPA-3.58 (Up to 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, Minimax&Alphabeta-pruning algorithm
- Technologies: C++

• Fullstack Projects (Monolithic/Distributed/ML):

1. *Purchase Management System* [Web-Link](#)

- A web app to manage purchase logs for “[Ujjal Flour Mills](#)” (Client).
- Technologies: React, Typescript, Tailwind, Node.js, Firebase, Express, MongoDB.

2. *Distributed Stack-Overflow App* [Web-Link](#) [Github](#)

- A web app to post questions and files. Backend is fully distributed.
- Technologies: React, Typescript, Redux, Docker, Nginx, Minio, Express, MongoDB.

3. *Banglish to Bangla Story-Telling* [Github](#)

- A website that allow you to write stories in Banglish and convert in Bangla/English.
 - Used “tanmoyio/wav2vec2-large-xlsr-bengali” pretrained model.
 - An integrated Ai chatbot that understand Banglish.
- Technologies: React, Typescript, Python, Express, MongoDB, Firebase.

4. *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.

5. *Market-Place Website (Khujo)* [Web-Link](#) [Github](#)

- A website for basic marketplace works.
- 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 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. 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
- **Backend:** NodeJs | ExpressJs | RestAPI
- **Database:** MongoDB | PostgreSQL | Prisma
- **Languages/Tools:** C | C++ | Python | Java | C# | Unity | npm | Docker | Nginx
- **BlockChain Development:** Remix | Solidity | Request-Network

ACHIEVEMENTS

2025	CHAMPION , Blockchain Olympiad UIU CSE Fest
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 <ul style="list-style-type: none">• Conducted Research on Gamification, Crime Reporting, Crowdsorce.• 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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Founding member of the club.• Help the students to get prepared for Bangladesh Math Olympiad• Hosted 1 Math Olympiad across Brahmanbaria district.

Reference

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