

## EDUCATION

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

## PROJECTS

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### • 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 (Khujo)* [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

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- **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

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| 2016 | <b>CHAMPION</b> , Cumilla Regional Round<br>Bangladesh Math Olympiad                       |
| 2017 | <b>SECOND RUNNERS UP + National Math Camp</b> , National Round<br>Bangladesh Math Olympiad |

## EXPERIENCE

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| 1/7/2024-31/12/2024  | <b>U.S. Embassy Dhaka, Department of Justice</b><br><b>WPA Technical Support Intern</b> <ul style="list-style-type: none"><li>• Conducted Research on Gamification, Crime Reporting, Crowdsourcing.</li><li>• Designed and currently developing an application to educate Bangladeshi and International Youth about wildlife and biodiversity conservation.</li></ul>                           |
| 1/11/2023-Present    | <b>Brahmanbaria Science Club</b><br><b>President</b> <ul style="list-style-type: none"><li>• Been a member for 8 years.</li><li>• Hosted 1 Physics Olympiad, 1 Chemistry Olympiad, 1 Biology Olympiad across Brahmanbaria district.</li><li>• Hosted regional round of National Junior Science Olympiad.</li><li>• Organized 48 sessions, 6 workshops, many online training programs.</li></ul> |
| 28/4/2017-28/11/2022 | <b>Annada Math Club</b><br><b>Vice-President</b> <ul style="list-style-type: none"><li>• Founding member of the club.</li><li>• An initiative to help the student to get prepared for Bangladesh Math Olympiad</li><li>• Hosted 1 Math Olympiad across Brahmanbaria district.</li></ul>   |

## Reference

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