



Tanzeem Ahmed

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👤 **Behance**: <https://www.behance.net/tanzeemsakib>

👤 **itch.io**: <https://tanzeem-ahmed-sakib.itch.io/>

Gender: Male **Date of birth**: 01/06/2001 **Nationality**: Bangladeshi

ABOUT ME

I am Tanzeem Ahmed, a senior at University of Dhaka, with a major in Applied Mathematics and currently based in Dhaka, Bangladesh. My interests lie in machine learning and data analysis. I am also involved in digital art and game development for projects-competitions, and professional commissions.

EDUCATION AND TRAINING

[01/2020 – Current] **Bachelor of Science (Hons) in Applied Mathematics**

University of Dhaka <https://www.du.ac.bd/>

City: Dhaka | **Country**: Bangladesh |

[04/2017 – 05/2019] **Higher Secondary Certificate**

Dhaka Residential Model College <https://www.drmc.edu.bd/>

City: Dhaka | **Country**: Bangladesh |

[01/2015 – 02/2017] **Secondary School Certificate**

Dhaka Residential Model College <https://www.drmc.edu.bd/>

City: Dhaka | **Country**: Bangladesh |

WORK EXPERIENCE

[11/2022 – 12/2023] **Co-Founder and General Member**

Applied Mathematics Programming Society

City: Dhaka | **Country**: Bangladesh

-Assisted in establishing AMPS, a departmental club focused on enhancing problem-solving skills through programming, mathematical puzzle-solving, and algorithmic thinking.

-Contributed to fostering a non-hierarchical learning environment that emphasizes mathematical problem-solving through coding and values logic-driven discussions.

-Led and facilitated weekly meetings, coordinated small-scale projects, and liaised with faculty members to seek guidance, coordinate activities, and ensure alignment with academic objectives.

-Developed content, managed social media promotion, and engaged in problem-solving and coding initiatives. which contributed to the club's GitHub repository.

[12/2019 – Current] **Private tutor**

City: Dhaka | **Country**: Bangladesh

-Provided personalized instruction in Mathematics and Physics to secondary and higher secondary students.

- Developed tailored lesson plans to enhance students' conceptual understanding and problem-solving skills.
- Assisted students in preparing for exams, improving performance, and building confidence in the subjects.
- Communicated complex topics effectively, adapting teaching methods to different learning styles.

[10/2019 – 09/2020]

Chief Operating Officer

One Action Foundation

City: Dhaka | **Country:** Bangladesh

- Engaged in volunteer activities, including street cleaning, feeding stray dogs, and fundraising for various causes.
- Managed media and public outreach, initially joining as a Graphic Designer and Volunteer before being promoted to Head of Media and later COO.
- Coordinated cross-functional teams, supervised projects, and ensured efficient execution of organizational goals.

PROJECTS

[11/2023 – 10/2024]

Wavelet Transforms in Digital Image Processing

- Conducted under the supervision of Dr. Md. Rakib Hossain as an independent project initiative.
- Unpublished and potentially incomplete, serving as an ongoing research effort.
- Explored the theoretical foundations of wavelet transforms, focusing on the Discrete Wavelet Transform (DWT).
- Implemented Fast Wavelet Transform (FWT) for 1D and 2D signal decomposition and reconstruction.
- Applied wavelet-based edge detection techniques using modified DWT algorithms.
- Analyzed and compared different wavelet families (Haar, Daubechies, Symlets) for image processing applications.

Various Game Jam Submissions

- Led the design, development, and implementation of core gameplay mechanics, player controls, and resource management systems.
- Created pixel art assets, animations, and sound effects to enhance the game's aesthetic and user experience.
- Adapted game mechanics and level designs to fit the jam's themes, ensuring a cohesive and engaging player experience.
- Managed the full lifecycle of game development, from concept to prototype, within time constraints.
- Successfully developed and released multiple playable games, with each submission highlighting unique gameplay elements and creative interpretations of the jam themes.
- Demonstrated strong time management skills, delivering polished games on tight deadlines.
- Gained hands-on experience in solo development, adapting to feedback and iterating on mechanics quickly.

Links: <https://tanzeem-ahmed-sakib.itch.io/maya> | <https://tanzeem-ahmed-sakib.itch.io/kitchen-keep> | <https://tanzeem-ahmed-sakib.itch.io/flip-n-frolic>

DIGITAL SKILLS

My Digital Skills

Wolfram Mathematica | FORTRAN | C++ | MATLAB | LaTeX | Godot | Adobe Photoshop | Adobe Illustrator | Adobe Premier Pro | Adobe After Effects | Blender | Microsoft Word | Microsoft PowerPoint | Microsoft Excel | HTML | CSS | Figma

REFERENCES

Dr. Md. Rakib Hossain

Associate Professor, Department of Applied Mathematics, University of Dhaka, Bangladesh