

Moaz Mahmud

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EXPERIENCE

REVE Systems

Feb. 2021-Present

Junior Software Engineer

- I am working in E-Governance Department of the company in Bangladesh development office
- Main responsibility is Back-end Engineer
- Currently I am working as a Java Back-end Engineer on Parliament Resource Planning (PRP) project for Bangladesh National Parliament.

EDUCATION

Bangladesh University of Engineering and Technology

CGPA: 3.56/4.0

Bachelor of Science in Computer Science and Engineering

Feb. 2016 – Feb. 2021

Higher Secondary School Certificate

GPA: 5.0/5.0

BAF Shaheen College, Jessore

Aug. 2015

Secondary School Certificate

GPA: 5.0/5.0

BAF Shaheen College, Jessore

Apr. 2013

PROJECTS

Tic Tac Toe | *Python, PyGame, Minimax algorithm*

July 2020

- Frontend game play is implemented in PyGame
- Build an AI to play Tic Tac Toe with Minimax algorithm in Python

Park Your Car | *Laravel, phpMyAdmin, Google Map API, HTML, CSS, JavaScript*

September 2019

- Web-based car parking sharing service implemented in a three members group
- Used Google map API for showing and searching for parking spaces
- Backend is managed in Laravel
- phpMyAdmin is used to manage database

Online Judge | *Java, Thread, JavaFX, Networking in Java*

November 2017

- Online judge that can be used to arrange programming contests
- Used JavaFX as the front end
- Java in the back end to do all the network programming and program logics

Mancala Player | *C++, OOP, Minimax algorithm, Alpha-Beta pruning*

February 2019

- Mancala is two-player turn-based strategy board game
- Build an AI to play Mancala with Minimax algorithm and Alpha-Beta pruning
- OOP is used to manage game states

Ray Tracer from Scratch | *C++, OOP, OpenGL*

September 2019

- Implemented a ray tracer along with shading from scratch
- OOP is used to manage draw various shapes

ONLINE JUDGE PROBLEM SOLVING

LightOJ [@mz_mahmud](https://www.linkedin.com/in/moaz-mahmud)

- Solved 151 problems.
- My common work flow is learning an algorithm and solving the categories.

Hacker Rank [@MzMahmud](https://www.linkedin.com/in/moaz-mahmud)

- Gold Level in C++,Python.
- Silver Level in C,Problem Solving.

Project Euler [@MoazMahmud](https://www.linkedin.com/in/moaz-mahmud)

- Solved 67 problems.
- As a math enthusiast I like solving math problem with programming.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, C#, L^AT_EX, SQL, Bash Script, HTML/CSS

Competitive Programming : Problem Solving, Algorithm, Data Structure

Frameworks: PyGame, Laravel

Developer Tools: Git, Visual Studio, VS Code, Jupyter Notebook, NetBeans, Eclipse

ACHIEVEMENTS

- Networking, Systems and Security 7th NSysS 2020** Nov 2020
- Runner-up Student Poster Award for *A Heuristic for Maximum Greedy Consensus Tree Problem*
 - With S. M. Raihanul Alam
- ACM ICPC Dhaka Regional Online Preliminary Contest** 2016-18
- 2016 - Team BUET RDX : Position 122 out of 1235
 - 2017 - Team BUET NAIVE: Position 75 out of 1246
 - 2018 - Team BUET NAIVE: Position 164 out of 1326
- National High School Programming Contest 2015 Khulna Regional (Senior)** April 2015
- 2nd position among 65
- Bangladesh National Math Olympiad** 2011-15
- National Round : 2nd runner Up (2015), 1st runner Up (2014)
 - Divisional Round: Champion (2015), 2nd runner Up (2014), 1st runner Up (2013), Champion (2011)

VOLUNTEER EXPERIENCE

- Academic Team Member** 2015-Present
- Bangladesh National Math Olympiad*
- Conducted more than 12 regional Olympiads, 4 national Olympiads
 - Organized many question camps and math camps
 - Problem setter for various regional math olympiads
- Online Education** July 2020-Present
- moazmahmud.com
- Uploaded more than 70 lecture videos of around 1 hour each on Math and Physics
 - Videos have more than 450 hours of watch time
- Mathematics Coach** 2017-18
- Student Empowerment Program, Volunteers Association for Bangladesh*
- Conducted math camps on Nilphamari, Satkhira and Shariatpur

UNDERGRAD THESIS

- A Heuristic for Maximum Greedy Consensus Tree Problem** 2019-Present
- A study to find an approximation algorithm for the NP-hard problem Maximum Greedy Consensus Tree Problem
 - The problem has applications in Bioinformatics
 - Under supervision of Dr. Md. Saidur Rahman