

Abdullah Al Mahin

[@AB](#)[✉ mahin.cse7.bu@gmail.com](mailto:mahin.cse7.bu@gmail.com)[☎ +8801756689357](tel:+8801756689357)[📄 Ab-mahin](#)[in ab-mahin](#)

Passionate Computer Science student with experience in competitive programming and machine learning. Skilled in C/C++, Python, Go, with a strong algorithmic background. Motivated to contribute to the software field.

Achievements & Competitive Programming

- 2x ICPC Asia Dhaka Regional Finalist, 2023 - 2024
- Recent Contest Rankings
 - Ranked **13th** in PSTU IT Carnival Programming Contest 2024 (South Zone - Individual)
 - Ranked **38th** in BUET Inter University Programming Contest 2023, FirstStep
 - Ranked **109th** in SUST CSE Carnival Programming Contest 2024, BU MatrixMinds
 - Ranked **106th** in BUET CSE Carnival Programming Contest 2024, BU_Phantoms
 - Ranked **111th** in ICPC Asia Dhaka Regional Contest 2023, Team_Excalibur
 - Ranked **211th** in ICPC Asia Dhaka Regional Contest 2023, BU_Phantoms
- Competitive Programming
 - Codeforces: Expert (Max Rating 1616) (Profile: [Ab-Mahin](#))
 - CodeChef: 4★ (Max Rating 1802) (Profile: [ab_mahin](#))
 - LeetCode: (Profile: [Ab_mahin](#))
 - Solved over 3000+ algorithmic problems across various platforms.

Projects

- **RLUCID: Noise-Regularized CNN for DDoS Attack Detection** *Undergraduate Thesis*
Problem: High-accuracy DDoS detectors are vulnerable to small, targeted packet-level perturbations.
Solution: Developed **RLUCID**, a lightweight CNN on packet-level flow fragments, using sign-based adversarial perturbations on selected header features during training.
Benefits: Improved robustness to evasive traffic while maintaining **low latency** for real-time deployment.
Code: [🔗](#)
- **Multi-Agent DQN Coordination Framework**
Problem: Multi-agent reinforcement learning systems suffer from coordination failures, frequent collisions, and ambiguous movement semantics.
Solution: Designed a grid-based multi-agent simulator with **central-clock execution semantics**, head-on swap collision detection, and reward shaping.
Code: [🔗](#)
- **Pac-Man A* Pathfinding Simulation Environment**
Problem: Real-time path planning in dynamic grid environments requires optimal navigation under strict performance constraints.
Solution: Implemented a modular Pac-Man simulator with **A* pathfinding**, ghost behavior modeling, wall detection using Python and Pygame.
Code: [🔗](#)
- **AutoTraineeUpdater** (Python Automation Tool)
Developed a Python-based automation system to update trainee information, reducing manual data entry. Implemented structured data handling and automated workflows for efficient trainee record management.
Code: [🔗](#)

Technical Skills

- **Languages:** C/C++, Go, Python, C#, JavaScript
- **Tools & Platforms:** Linux, Docker, Git, GitHub, CI/CD (GitHub Actions), Postman
- **Backend & Databases:** Golang (Basic), SQL Server
- **Cybersecurity & Networking:** NIDS, DDoS Attack Detection, Packet-level Traffic Analysis, Adversarial Training
- **Machine Learning & AI:** DQN, CNN, RNN, SVM, Linear/Logistic Regression, Decision Trees, kNN
- **Frontend:** HTML, CSS, Bootstrap

Education

University of Barishal

January 2020 – December 2025

B.Sc. in Computer Science and Engineering

Barishal, Bangladesh

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems

• **CGPA: 3.30**

Volunteer & Leadership Roles

- **President, Programming Club (CSEBU)** – University of Barishal *Jan 2025 – Dec 2025*
 - Organized programming contests and technical workshops, enhancing student engagement.
 - Contributed as a **problem setter** and contest coordinator.
- **DSA Instructor, CSE Club** – University of Barishal *Nov 2022 – Dec 2025*
 - Mentored 150+ students in data structures and algorithms, and organized multiple programming contests.