

MD. Nayem Islam

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Education

B.Sc. in Computer Science and Engineering

Shahjalal University of Science and Technology, Sylhet.

02/2020 – Present

CGPA: 3.90 / 4.00 (As of 6th Semester)

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript, Bash, Dart

Web Technologies: HTML, CSS, Tailwind CSS, Node.js, React.js, Express.js, Next.js

Databases: MySQL, MongoDB, Firebase

Tools & Frameworks: OpenGL, JavaFX, TensorFlow, PyTorch, YOLO, Detectron2, Transformers, LLM

Programming Competitions Experience

- **ICPC Preliminary Dhaka Site 2024** – 17th place out of 2500 teams (top 0.68%). [🔗](#)
- **ICPC Dhaka Regional Contest 2024 Onsite Round** – 35th place out of 300 teams. [🔗](#)
- **SUST Inter University Programming Contest (2024)** – 30th place out of 120 teams. [🔗](#)
- **UIU Inter University Programming Contest (2025)** – 32nd place out of 160 teams. [🔗](#)
- **Code Battle – SUST CSE Carnival (2024)** – 2nd Runner-Up individually. [🔗](#)
- Participated in SRBD Code Contest (2024) - top 100
- Ranked in the top 10 at Leading Inter-University Hackathon 2.0
- Ranked in the top 20 at Intra SUST Programming Contest 2023 [🔗](#)
- **Codeforces:** Highest Rating: 1629, Expert, 1350+ problems solved. [👤](#)
- **CodeChef:** Highest Rating: 1823, 4*. [👤](#)
- **AtCoder:** Highest Rating: 1061. [👤](#)
- **Leetcode:** Solved 350+ problems. [👤](#)
- Solved around 3000 DSA problems.

AI & Machine Learning Competitions Experience

- **DL Sprint 3.0 — Bengali AI Math Olympiad (2024)** LLM COT TIR Block-D
2nd Runner-Up & Best Dataset Award among 140+ teams. Developed an AI system solving 100 Bengali Math Olympiad problems with 82-84% accuracy. [🔗](#)
- **DL Enigma 1.0 — SUST CSE Carnival (2024)** YOLO
Secured 6th place in the "Autonomous Vehicles for Bangladesh Roads" competition, developing object detection for self-driving cars. [🔗](#)

Research & Projects

- **BongoFashion: A Versatile Dataset for Real-time Detection and Classification of Bangladeshi Wearables (2024)** YOLO Detectron2 Roboflow
Developed **BongoFashion**, the largest dataset of Bangladeshi clothing with 11,498 images across 39 categories. Achieved 91.7% mAP using YOLOv9. Accepted in ICCIT 2024 conference. [📄 Paper](#)
- **Math101: A Novel Approach to Optimizing LLMs Using Block-D and Pruning** LLM COT TIR Block-D
Optimized LLM inference with Block-D and dual-pruning, achieving 4x speedup and 84% accuracy in Bengali math reasoning. [📄 Paper](#)
- **SUST-Open-CourseWare (2024)** NodeJS ReactJS ExpressJS Tailwind MongoDB Stripe
An online educational platform offering course materials, lectures, and tutorials for self-paced learning and academic collaboration. [🌐 Live Demo](#) [📄 Project Documentation](#) [🌐 Github](#)
- **Draw-Choose: A Multiplayer Drawing and Guessing Game (2022)** Java JavaFX Socket SQLite
A real-time multiplayer drawing and guessing game inspired by Skribbl.io, built in Java with an interactive interface and networking capabilities. [🌐 Github](#)
- **Wordle Solver (2022)** Java JavaFX [🌐 Github](#)
Built a Wordle solver using Trie and letter frequency analysis, solving words in ≤ 5 attempts with a GUI.
- **Sand Simulator (2021)** C++ OpenGL [🌐 Github](#)
A falling sand game that provides a creative place to play with elements like sand, water, plant, and fire.
- **ReadMore: A Browser Extension for quick word lookup (2021)** JS Chrome Extension [🌐 Github](#)
Developed a Chrome extension for instant word definitions on double-click.