Md. Shafi Mahmud

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🔗 md-shafi-mahmud ⬡ shafi21001 🌐 Portfolio

About Me

Final-year ICT undergraduate with a strong foundation in Computer Science fundamentals and extensive problem-solving experience. Proven ability to build and deploy functional web applications. Seeking a software engineering role to leverage skills in Algorithms, Data Structures, and System Design.

Education

Mawlana Bhashani Science and Technology University   Tangail, Bangladesh
B.Sc. Engineering in Information and Communication Technology   *Exp. Grad: Mar 2026*
CGPA: 3.86 / 4.00 (Current: 4th Year, 2nd Semester)

Technical Skills

Languages: C, C++, Java, Python, SQL, JavaScript
Core Competencies: Data Structures, Algorithms, OOP, DBMS, OS, System Design
Web: HTML/CSS, React.js, Bootstrap, PHP, Vite, Web Crawling
Tools: Git, GitHub, Linux, VS Code, Postman, LLM

Competitive Programming

Problem Solving: Solved over **1000 challenges** across Codeforces, CodeChef, AtCoder, CSES and LeetCode, focusing on graph theory, number theory, and advanced optimization techniques.
Ratings: **Codeforces** [shafi_m]: Specialist (**Max 1410**) | **CodeChef** [shafi_m]: 3-Star (**Max 1679**)

Contest Achievements

- **ICPC Dhaka Online Preliminary Contest 2025** (Team: *jeta_mone_hoy*, **Rank: 59 / 1717**)   Standings ↗
- **ICPC Dhaka Regional Onsite 2025** (Team: *jeta_mone_hoy*, **Rank: 140 / 320**)   Standings ↗
- **Breaking Code 2.0 (MBSTU CSE Fest)** (Team: *JusticeForHadi*, **Rank: 5 / 52**)   Standings ↗
- **NWU CSE Fest 2025** (Team: *HereFor_tShirt*, **Rank: 35 / 65**)   Standings ↗
- **CUET IUPC 2025** (Team: *NameDiyeKamKi*, **Rank: 53 / 130**)   Standings ↗

Projects

Easy Peasy Routine | *React, TypeScript* | **GitHub Repo** ⬡   Aug 2025 – Oct 2025

- Engineered a browser-based academic scheduling tool to automate the manual routing process, significantly reducing schedule creation time and human error.
- Developed a conflict detection algorithm that ensures 100% accuracy in teacher and room allocation by preventing overlapping slots.
- Optimized user experience with a "Wizard" setup and integrated `jsPDF` for client-side generation of Legal-size PDF routines without backend dependencies.

Meal Manager | *C++, STL* | **GitHub Repo** ⬡   Mar 2023 – Apr 2023

- Developed a zero-dependency CLI application to automate communal accounting and dynamic cost distribution for shared housing environments.
- Implemented persistent data storage using standard C++ File I/O (CSV/TXT) and utilized STL Maps to achieve optimized **O(log n)** data retrieval.
- Designed robust stream-clearing input validation to prevent runtime crashes and infinite loops from improper user inputs.

Leadership & Activities

Class Representative: Facilitated effective communication between 50+ students of the ICT 18th Batch and faculty members, ensuring smooth coordination of academic logistics.
Organizer: Coordinated problem-setting and logistics for multiple departmental programming contests involving 50+ participants.
Runner-Up: ICT Intra-Department Cricket Tournament (2024).
Champion: English Listening Test Competition, MBSTU (2022).