

Md. Abdur Rhaman Rony

Software Engineer | .NET Core, Angular | System Design & Applied AI

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 github.com/A-R-Rony

EXPERIENCE

BRAC IT Services Limited

Dhaka, Bangladesh | 06/2025 – Present

Software Engineer

- **API & Query Optimization:** Reduced a critical API's response time from 4s to under 1s (75%+ improvement) by redesigning data retrieval, introducing cursor-based pagination, and optimizing database queries, while eliminating UI freezes.
- **Async Worker Pool Reporting:** Re-architected a legacy synchronous reporting system into an asynchronous worker pool with Server-Sent Events (SSE), eliminating HTTP gateway timeouts and thread starvation on large exports.
- **Distributed Messaging & Domain Workflows:** Integrated RabbitMQ event-driven messaging to ensure distributed transactional consistency across microservices; modeled multi-step approval state machines using Clean Architecture & DDD (.NET / Angular).

TECHNICAL SKILLS

- **Languages & Tools:** C/C++, Java, C#, TypeScript, Git, OpenCode, Antigravity
- **Frontend:** HTML, CSS, Angular
- **Backend & Systems:** ASP.NET Core, ASP.NET MVC, Microservices, MySQL, PostgreSQL, RabbitMQ, MongoDB, Clean Architecture & DDD
- **Applied AI & LLMs:** LLM APIs (OpenAI, Gemini), Structured Outputs / JSON Schema, Function Calling, AI Agents & Tooling

TECHNICAL PROJECTS

EasyDeploy — Developer Environment & Configuration Manager | Live

- Built **EasyDeploy** to prevent environment drift through centralized configuration tokens and side-by-side environment comparisons.
- Developed deployment runbooks featuring execution checklists, and role-based sharing with granular Owner and Viewer permissions.

CSTE Connect: A Unified Platform for Alumni, Students, and Faculty

- Developing a web-based platform that includes features such as job postings, event tracking, alumni directory search, and a donation system.
- Implementing Vertical Slice Architecture to ensure maintainability and utilizing Domain-Driven Design (DDD) for structuring the business logic, developed using .NET (C#).

EDUCATION

B.Sc(Eng.) in Computer Science and Telecommunication Engineering

01/2020 – 10/2025

Noakhali Science and Technology University

CGPA: 3.82 out of 4.00

AWARDS & LEADERSHIP

Online Judges

- **Codeforces:** ar_rony1 (Max rating: 1640, Expert); **Codechef:** ar_rony1 (Max rating: 1933, 4 star)
- Solved 4200+ problems across online judges; participated in 400+ online contests.

Team Competitions (ICPC & IUPCs) — 20+ Onsite Contests

- Intra NSTU Programming Contest — 3x Champion, 2x 2nd place, 1x 3rd place.
- CUET IUPC (Divisional) 2022 — 4th place
- 15th IIUC Inter University Programming Contest 2023 — 7th place
- CoU-BRACNet IUPC 2023 — 27th place
- ICPC Dhaka Preliminary Participant and Regional Honorable Mention (2022, 2023, 2024)

Trainer: CPulse (Competitive Programming Platform) | Self-employed

- Founded **CPulse**, led a premium competitive programming mentorship batch, and authored original [problems](#) used in NSTU contests.