Md. Toshifur Rahman

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Technical Skills

AI / LLM: LLM APIs, Portkey, Function / Tool Calling, Structured Outputs (Zod), Provider Failover, LLM Observability
Languages: TypeScript, JavaScript (ES6+), C, C++, Python (basic)
Frontend: React.js, TanStack Query, TanStack Router, Tailwind CSS, shadcn/ui, Vite, Jotai
Backend: Node.js, Bun, Hono, Express.js, REST APIs, WebSockets (Socket.io)
Databases & Infrastructure: PostgreSQL, MySQL, MongoDB, Redis, Drizzle ORM, Supabase, AWS SQS, Docker
Auth & Security: Better Auth, JWT, Zod, Helmet
Testing & Tools: Vitest, Playwright, Selenium, JMeter, Git, GitHub, Postman, ESLint, Prettier, Husky

Projects

Ticket Pipeline *TypeScript, Bun, Hono, React, PostgreSQL, Redis, AWS SQS, Socket.io, Docker*

- Built an LLM-powered support-ticket pipeline where a queue worker triages each ticket (category, priority, sentiment, team) and drafts a customer reply, with progress streamed live to the customer via Socket.io.
- Enforced structured output using forced function (tool) calling with Zod schema validation; added timeouts, per-stage retries, and automatic failover from Gemini to a Groq backup through the Portkey gateway.
- Recorded every model call (outcome, latency, tokens) in an ops console with alerts and replay-from-failed-stage; tested with Vitest, Playwright end-to-end, and accessibility checks.

Rannaghor *TypeScript, React, TanStack Query/Router, Hono, Bun, PostgreSQL, Drizzle, Better Auth, S3*

- Built a multi-vendor e-commerce platform that supports customer shopping, vendor product management, and role-based administration.
- Structured it as a TypeScript monorepo with separate web, API, auth, database, and environment-validation packages, using Drizzle ORM for type-safe PostgreSQL access.

HN Clone *TypeScript, Vite, Tailwind CSS, Vitest*

- Built a framework-free client-side Hacker News clone in strict TypeScript with a hash-based router, HNPWA API integration, pagination, and nested comments; covered the API, rendering, and routing layers with Vitest unit and integration tests.

Experience

Web Developer, Taibah Academy Aug 2026 – Present

- Performed Software Quality Assurance (SQA) testing on the live production website, identifying and reporting functional bugs and UI issues before they affected users.
- Conducted security testing and hardening of the website, helping to protect student and payment data from common web vulnerabilities.
- Coordinated with the third-party development vendor to track, prioritize, and verify fixes for reported issues.

Undergraduate Teaching Assistant, Department of CSE, IIUC Aug 2024 – Aug 2025

- Assisted students in the Competitive Programming I Lab with problem solving, debugging, and core algorithms and data structures, providing targeted guidance to students who were falling behind.

Trainer & Mentor, IIUC Competitive Programming Society (IIUCCPS) Aug 2023 – Dec 2025

- Taught algorithms, data structures, and problem-solving techniques in competitive programming bootcamps, tracking participants' daily progress, and giving personalized feedback.
- Also served as Bootcamp Coordinator and Finance Secretary of IIUCCPS.

Education

M.Engg. in Computer Science and Engineering Aug 2026 – Present
Chittagong University of Engineering and Technology (CUET)

B.Sc. in Computer Science and Engineering Aug 2021 – Dec 2025
International Islamic University Chittagong (IIUC)

Competitive Programming and Achievements

- Codeforces: ToshifurRahman (Pupil, max rating 1290); CodeChef: tasin_021 (max rating 1461). Solved 1,600+ problems and participated in 100+ online and onsite contests.
- 1st Runner-up, IIUC Intra-University Programming Contest (Spring 2023).
- Best Mentor Award, IIUCCPS Competitive Programming Bootcamps (Autumn 2023 and Spring 2024).