Adrishikhar Barua

Full Stack Engineer

Chattogram, Bangladesh, adrishikharbarua77452@gmail.com
+8801632311801 | GitHub | Portfolio | LinkedIn

PROFILE

- Full-stack engineer with end-to-end ownership of web applications — designing React/Next.js interfaces, building Express.js APIs, modeling MongoDB data layers, and deploying production systems on Vercel and Netlify.
- Passionate about bridging frontend and backend: from authentication flows (Better Auth, OAuth) and role-based dashboards to API design and database optimization; co-authored peer-reviewed AI security research at BIM 2025 (Springer LNNS); active competitive programmer (Codeforces 854, 700+ problems).

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C++, HTML, CSS

Frontend: React 19, Next.js 16 (App Router), Redux Toolkit, TanStack Query, Tailwind CSS 4, shadcn/ui, Radix UI, Zod, Framer Motion, Vite

Backend: Node.js, Express 5, PostgreSQL, MongoDB, Redis, Socket.IO, Stripe, REST APIs, OpenAPI, JWT, OAuth 2.0

Tools: Git, GitHub, Docker, Vercel, Netlify, VS Code, Postman, Cursor

PROFESSIONAL EXPERIENCE

GEN AI LABS — **Full-Stack Engineer**
Remote — Sep 2026 – Present

- Building production marketplace platforms end-to-end: TypeScript services on PostgreSQL and Redis with job queues, Socket.IO real-time messaging, Stripe payments and Connect payouts, and Next.js admin consoles typed from the API's OpenAPI schema.

GEN AI LABS — **Full-Stack Engineer (Intern)**
Remote — Jun 2026 – Aug 2026

- Built and maintained marketplace platforms including Rennzone (Sharetribe), SpruceUp cleaning marketplace, and Kaya frontend — implementing features across React, Redux, Express, MongoDB, Stripe payments, and real-time notifications.

KEY PROJECTS

MediQueue — Tutor Booking System — Live | GitHub

- Full-stack tutor booking with searchable directory, real-time slot tracking, role-based dashboards, Better Auth (email/Google), and Framer Motion UX.
- **Tech Stack:** Next.js 16, React 19, Tailwind CSS 4, HeroUI, Flowbite React, Framer Motion, Better Auth, Express.js, MongoDB, Vercel.

Wanderlust Client — Live | GitHub

- Travel booking app with destination browse, trip reservations, Google/email auth, and an admin panel for managing listings.
- **Tech Stack:** Next.js 16, React 19, Tailwind CSS 4, Better Auth, MongoDB, HeroUI, Vercel.

SkillSphere — Online Learning Platform — Live | GitHub

- Online learning platform with course catalog (search, filters), protected lessons, instructor highlights, and Google/email authentication.
- **Tech Stack:** Next.js 16, React 19, HeroUI, Tailwind CSS 4, DaisyUI, Framer Motion, Better Auth, MongoDB, Vercel.

RESEARCH & PUBLICATIONS

- "Hardware-Aware Defense Against Adversarial Prompt Injection" — QPAIN 2026 (submitted). **Contributions:** Hardware-focused RAG security benchmarks on CPU/GPU; five architectures on 2,100 adversarial samples (17.9× GPU speedup).
- "Counter-Example Guided In-Context Learning: Mitigating Constraint Imitation in LLMs" — BIM 2025. **Contributions:** Co-authored CE-ICL with contrastive flawed reasoning paths; presented at BIM 2025. [*Springer LNNS, Vol. 1798*] [DOI]

EDUCATION

Bachelor of Science in Computer Science and Engineering — Expected 2026
International Islamic University Chittagong | CGPA: 3.1 / 4.00 | *Focus: Frontend Architecture & Databases*

AWARDS, CERTIFICATIONS & ADDITIONAL SKILLS

- **Competitive Programming:** Codeforces A_D_R_I (Rating: 854; 394+ solved; 700+ overall); ICPC Preliminaries and university contests.
- **Certifications:** Web Development (Programming Hero); Full Stack Development (Udemy).
- **Languages:** English (Proficient), Bengali (Native).