

TANZIM RAHMAN SABIB

Full Stack Engineer | Next.js · React · Node.js · FastAPI

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SUMMARY

Full stack engineer who builds and owns production products, from frontend architecture through backend services and deployment. Built an AI audio product now used by **3,000+ people**, and architected the Next.js frontend for a marketplace aggregating **1.47M listings across 32 marketplaces**. Strong in frontend architecture, typed API design, caching strategy, asynchronous processing, and the engineering conventions that keep fast-moving codebases maintainable.

SKILLS

Frontend: Next.js, React, TypeScript, Zustand, Tailwind CSS, shadcn/ui

Backend: Node.js, Express.js, Python, FastAPI, REST APIs, BFF, JWT / OAuth, Celery, Redis

Data & Infra: PostgreSQL, MongoDB, Supabase, Firebase, Docker, Vercel, GitHub Actions (CI/CD)

Practices: System & API design, typed API contracts, Automated testing, Technical scoping

AI-Native Development: AI coding agents (Claude Code), Agentic workflow, Context-Engineering, MCP/tool integration

EXPERIENCE

Ontik Technology | Full Stack Engineer

Apr 2026 – Present

[Watch Pursuit](#) | *watch marketplace aggregation platform (live)*

- Architected and built the server-first **Next.js App Router** frontend and BFF layer for a platform aggregating **1,471,473 listings across 32 marketplaces**. Owned frontend architecture decisions on a 4-engineer team, reviewed and refactored teammates' code.
- Broke the design system down into a modular component library with shared naming, prop and folder conventions**, then scoped and split feature work across the team against it. Wired Figma to components through MCP and encoded our Next.js and shadcn/ui conventions into shared instruction files, so AI-assisted work landed consistently enough to merge and the team hit its delivery dates.
- Built a centralized typed API and data-access layer covering auth headers, pagination, filtering, sorting and 401 refresh flows, with a deliberate caching strategy per route (**no-store, revalidate / ISR, cache() and request memoization**), so any engineer could add a feature against one consistent contract.
- Implemented authentication end to end: access and refresh tokens in HTTP-only cookies, silent refresh, middleware-guarded dashboard routes, Google login and session persistence.
- Built the discovery experience with 50+ filters coordinated through **Zustand**, debouncing server-side search, infinite loading, and **natural-language search** that maps queries like "Rolex Submariner under \$10k from US sellers" into structured filters.
- Reduced client-side JavaScript and improved load performance through selective client components, code splitting, lazy loading and image optimization.

[IEB](#) | *event management platform for the Institution of Engineers, Bangladesh*

- Built the **Express.js / PostgreSQL** backend and React admin dashboard running event creation and registration for a national professional engineering body: event lifecycle, capacity limits, multi-step registration, Firebase and Google auth, SMS OTP, and venue mapping with Google Maps and OpenStreetMap.
- Built background notification workers and transactional email over SMTP with Nodemailer to automate registration confirmations and reminders, plus Google Calendar sync; set up CI/CD and production deployment, coordinating API contracts with the mobile developer.

Iqra Wave Foundation | Product Engineer, Technical Owner

Remote · Nov 2025 – Apr 2026

[Music Remover](#) | *AI audio tool, live as a desktop app and Chrome extension (3,000+ users, rated 4.9 from 62 reviews)*

- Took the product from zero to MVP as technical owner alongside the co-founder:** Chrome extension, Windows desktop app, FastAPI services and async workers. The architecture I laid down is what shipped to production.
- Built the asynchronous media-processing pipeline (**FastAPI, Celery, Redis, Docker, yt-dlp, FFmpeg**) with ONNX / Spleeter / sherpa-onnx audio separation, reaching **~3.3s to process a 1-minute video** (RTF ≈ 0.055) with fault-tolerant retries and idempotent recovery.
- Cut ML deployment footprint by >95%** (1–2.5GB down to <50MB) through custom ONNX builds and a minimal FFmpeg, which is what made local desktop execution and pay-per-second serverless GPU viable.
- Built and tested the cloud tier behind the public release: Supabase authentication, usage-based credits, real-time job tracking and cloud/local GPU scaling, currently running as a limited beta.

Kids & Moms | Software Engineer (Contract)

Dec 2024 – Feb 2025

- Ran the technical scoping for migrating a WordPress storefront onto a custom React, Medusa.js and PostgreSQL platform, including integration with the client's legacy POS system; delivered the architecture, data model and rollout plan.

EDUCATION

BRAC University | B.Sc. in Computer Science

Sep 2021 – Sep 2026

ACHIEVEMENTS

- Mathematics Olympiad Champion**, MCSK Cadet College, two consecutive years (Class 11 and 12).