

Hasin Mahtub Khan

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Full Stack Developer

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Profile | My passion lies in crafting exceptional experiences and bringing ideas to life on the digital canvas. I am proficient in both front-end and back-end technologies, and I am very passionate about web animations and AI.

Experience

Software Engineer, AlterYouth

Feb, 2025 - Present

Tech Stack: Next.js, React Native, Tailwind CSS, Django, Tanstack Query

Product: AlterYouth ([Web](#) | [App](#))

AlterYouth is a scholarship platform working to prevent school dropouts in Bangladesh. It connects global users—especially from the Bangladeshi diaspora—with financially struggling students in government schools. Through digital banking, users can start direct scholarships, helping children stay in school instead of entering the workforce.

As a frontend engineer at AlterYouth, I contribute to the design and development of both the web and mobile applications. I work closely with designers and backend engineers to build responsive, user-friendly interfaces that are reliable, accessible, and optimized for performance.

Projects

Product: [Moodboard](#)

Tech Stack: Next.js 14, Convex, Clerk, TypeScript, Tailwind CSS, shadcn/ui, Liveblocks

- **Frontend:** Designed and built a fully responsive, real-time collaborative whiteboard. Included a custom toolbar with tools for text, shapes, sticky notes, and pencil drawing, along with support for layering, coloring, undo/redo, and keyboard shortcuts to enhance the creative workflow.
- **Real-Time Collaboration:** Powered by **Liveblocks**, enabling real-time presence, shared editing, and seamless collaboration between multiple users without conflict.
- **Authentication & Access Control:** Integrated **Clerk** for secure authentication, organization-based access, and invite-only collaboration, supporting multi-tenant environments with granular user control.
- **Database & State Syncing:** Used **Convex** for reactive, real-time data storage and backend logic, ensuring consistent, low-latency state syncing across all connected clients.

Product: [Gian \(AI Course Generation\)](#)

Tech Stack: Next.js, Typescript, Tailwind CSS, Prisma, Neon DB, Auth.js, Stripe, Google Gemini AI, Three.js

- **Frontend:** Developed a responsive and polished UI using **Next.js 14**, **Tailwind**, **shadcn/ui** and **three.js**, ensuring a smooth user experience across devices.
- **Authentication:** Integrated **Auth.js** for secure user **authentication** via **Google** provider, ensuring robust login and session management.
- **Backend & Data Management:** Utilized **Prisma** with **NeonDB** for scalable data storage and management.
- **AI-Powered Course Content:** Used **Google Gemini AI** to generate course content, including: AI-generated chapters paired with relevant YouTube videos for enhanced learning. **Summaries** created from YouTube video **transcriptions** to provide concise overviews. Chapter-specific **quizzes** dynamically generated using YouTube video transcriptions to test user knowledge.
- Free users have 10 credits. Unlimited access is available through a PRO plan, with **Stripe** integrated for secure subscription management and payments.

Product: [Reflecto \(Real Time Feedback Platform\)](#)

Tech Stack: Next.js, Typescript, Tailwind CSS, Prisma, MongoDB, Auth.js, Stripe, Upstash/redis-js, Tanstack Query, Discord API

- **Frontend:** Developed a responsive and polished UI using **Next.js 14**, **Tailwind**, and **shadcn/ui**, ensuring a smooth user experience across devices.
- **Authentication:** Integrated **Auth.js** for secure user **authentication** via **Google** provider, ensuring robust login and session management.
- **Backend & Data Management:** Utilized **Prisma** with **MongoDB** for scalable data storage and management.
- **API Routes:** Created custom Next.js API routes to fetch and submit user reviews, implementing pagination and real-time updates.
- Managed review data efficiently with **Tanstack/react-query** to ensure fast and seamless interactions.
- Integrated **Stripe** for handling user **subscriptions** and **payments** securely.
- Used **Upstash/Redis** for **rate-limiting**, optimizing the platform's performance and security.
- Implemented **Uploadthing** for secure image storage and management.
- Set up real-time **Discord notifications** to alert users about new **feedback** or **member** activity, improving user engagement and interaction.

[Jinsei](#)

Tech Stack: React.js, Typescript, Framer Motion, Lenis

- This project is a stunning remake of the **Awwwards** nominated website, LifeR Diabetes!
- It includes scrolling text animation and many more modern animations that bring the website to life.

[Maker Studios](#)

Tech Stack: React.js, Typescript, Framer Motion, Lenis

- I built this landing page with modern, **Awwwards**-inspired animations. It includes **scrolling** animations powered by Framer Motion, a **custom cursor**, and a **magnetic** effect, offering an interactive and visually captivating user experience.

[Homie \(Home Rental Application\)](#)

Tech Stack: Typescript, Next.js, Prisma, MongoDB, NextAuth

- Implemented secure user **authentication** using **email/password** and **Google** OAuth, including **password reset** and **email verification**.
- Integrated **Nodemailer** for sending emails.
- Enabled full **CRUD** functionality for users to rent houses or list their own properties.
- Developed a robust **search** feature to allow users to filter rental listings based on various criteria.
- Integrated **Cloudinary** for efficient image upload.
- Utilized **Zod** for schema-based validation to ensure data integrity and prevent invalid input.

[Neko \(Discord Clone\)](#)

Tech Stack: TypeScript, Next.js, Prisma, Clerk, LiveKit, Socket.IO, Zod, Tailwind CSS, Radix UI, React Hook Form

- Integrated **Clerk** for secure user authentication, including session management and social login options.
- Built **real-time chat** and live audio/video communication using **LiveKit** and **Socket.IO**, providing seamless user interactions.
- Integrated **Uploadthing** for efficient file uploading.
- Designed a responsive and accessible UI with **Tailwind CSS** and **shadcn/ui**.
- Utilized **Zustand** for managing global state across the application and **React Hook Form** for form validation and management.
- Employed **Zod** for form validation, ensuring accurate data handling for user inputs.
- Enabled theme switching with **Next Themes** for a personalized user experience.
- Leveraged **Prisma** for database management, enabling seamless backend communication.
- Leveraged **Axios** for data fetching.

Certifications

[Reactive Accelerator](#)

[Certificate](#)

Learn with Sumit

- **Grade: A+** (90.46%)
- **Projects Completed:** 9/9
- Recognized as a **Star Performer** for outstanding participation in modules, quizzes, assignments, and the final exam.
- [Recommendation Letter](#) received for excellence in course performance and potential as a web development professional.

Skills

Technical Skills:

- **Languages:** TypeScript, JavaScript, Python
- **Frontend:** Next.JS, React
- **Animation Library:** GSAP, Framer Motion
- **Backend:** Node.js, Nest.js, Express.js
- **Databases:** MySQL, MongoDB, Mongoose, Prisma, Drizzle
- **Mobile:** React Native
- **CMS:** Strapi, Shopify, Payload CMS
- **Design & Creative Software:** Adobe Illustrator, Adobe Photoshop, Adobe Premiere Pro, Filmora
- **Others:** Microsoft Word, Microsoft Excel, Microsoft PowerPoint

Soft Skills:

- Fluent in English
- Hard Worker
- Adaptability

Education

B.S. Dyes and Chemical Engineering

2019 - 2024

Bangladesh University of Textiles

Dhaka, Bangladesh

GPA : 3.14