

# TANVIRUL ISLAM

Frontend Software Engineer | 3 Years Experience

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## Technical Skills

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**Languages:** JavaScript, TypeScript, Python

**Frameworks & Libraries:** React, Next.js, Redux RTK Query, Vitest, React Testing Library (RTL) - Unit & Integration Test, Chart.js, Framer Motion, GSAP, Tailwind CSS, Shadcn, Ant Design

**Real-Time & Media:** Agora RTC SDK, Pusher (WebSocket), WebRTC concepts

**Backend & Database (Basic):** Node.js, Express.js, Nest.js, MySQL, MongoDB

**Tools & DevOps:** Git, CI/CD with GitHub Actions, Docker, **AI-Assisted Development (Claude Code, OpenAI Codex, Cursor)**

## Professional Experience

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**Software Engineer (Frontend) Level — II**

*July 2025 – Present*

StarConnect · [starconnect.com](https://starconnect.com)

- Architected expert dashboards, profile pages, and **booking systems with graphical analytics**, advanced filtering, and deep API integrations using **RTK Query** and Next.js 15 App Router.
- Integrated **Agora RTC SDK** for low-latency **multi-party video and audio streaming** with dynamic participant join/leave, mute, and video toggle.
- **Reduced page load times significantly by implementing SSR strategies, image optimization, reducing unnecessary API calls**, lazy loading, and **optimised client-side caching** with RTK Query's normalised cache layer.
- Implemented AuthProvider, and useAuthCheck hook to correctly handle **HttpOnly cookie-based access tokens** and refresh token lifecycle **without redundant API calls**.
- Established **unit and integration test** coverage with **Vitest and React Testing Library (RTL)**, reducing regression bugs across critical user flows.
- **Accelerated feature delivery** by leveraging **AI development tools (Claude Code, Cursor, OpenAI Codex)** for rapid prototyping, code generation, and iterative development — consistently **shipping features faster** without compromising code quality.

**Junior Software Engineer — Frontend**

*Feb 2023 – July 2025*

DocTime & Media365 Ltd · [doctime.com.bd](https://doctime.com.bd)

- Built and maintained core frontend features for Bangladesh's leading telemedicine platform **Doctime** — patient profiles, **appointment management, video consultations via Agora RTC** using Next.js, React, TypeScript, and Redux Toolkit.
- Developed **Progressive Web Applications (PWA)** that integrate with native mobile environments.
- Built rich **animations and parallax scroll effects** using **GSAP and Framer Motion** for brand projects including **HWE (London)** and **7 Seconds (like TikTok)**, enhancing visual engagement.
- **Collaborated** with UI/UX designers and QA teams for **pixel-perfect cross-device implementation** and managed multi-environment releases via GitHub.
- Contributed to the Doctime Ramadan Calendar platform using **React, Context API, Node.js**, MongoDB, and Tailwind CSS, from architecture through deployment.

## Projects

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### StarConnect

[starconnect.com](https://starconnect.com)

A platform connecting users with domain experts for consultations, featuring booking systems, dashboards, and real-time video sessions.

- Architected expert dashboards, profile pages, and booking systems with **advanced filtering** and deep API integrations using **RTK Query** and Next.js 15 App Router.
- Integrated **Agora RTC SDK for low-latency** multi-party video and audio streaming with dynamic participant controls.
- Improved **performance** through SSR strategies, **image optimization**, lazy loading, and **RTK Query's** normalised **cache layer**.

**Stack:** Next.js 15, TypeScript, Redux RTK Query, Agora RTC SDK, Pusher, Tailwind CSS, Shadcn

### DocTime

[doctime.com.bd](https://doctime.com.bd)

Bangladesh's **leading telemedicine platform** serving thousands of patients and doctors with real-time video consultations, appointment management, and secure payments.

- Integrated Agora RTC SDK for **real-time doctor-patient video consultations** with in-session controls.
- Implemented **PWA** features including **service workers, push notifications, and native app install** support.
- Developed doctor and patient dashboards with appointment scheduling, report viewing, and payment management.

**Stack:** Next.js, React, Redux Toolkit, TypeScript, Tailwind CSS, Agora RTC SDK, SSL Commerz, PWA

### Connect Room — Real-Time Video Conferencing App

[video-calling-app-035.vercel.app](https://video-calling-app-035.vercel.app)

Personal project supporting up to **6 participants** with **HD multi-party video/audio, real-time chat, and screen sharing**.

- Integrated **Agora RTC SDK** for multi-party streaming with participant join/leave, mute, and video toggle controls.
- Implemented **real-time in-call chat using Pusher WebSocket** with session-persisted message history.

**Stack:** Next.js 15, TypeScript, Agora RTC SDK, Pusher, Tailwind CSS

### MyBL Care — Telemedicine PWA

[Play Store](#)

PWA for **Banglalink's** MyBL platform, providing telemedicine and medicine e-commerce to millions of subscribers.

- Built **real-time video consultation** system using Agora RTC with in-call chat and a **native-web bridge** for seamless **PWA-app integration**.

**Stack:** React JS, Agora RTC SDK, Pusher.js, PWA (Service Workers), Tailwind CSS

### HWE — Hudson Wright Easton

[hudsonwrighteaston.com](https://hudsonwrighteaston.com)

Website for a London-based luxury branding agency with immersive scroll animations and **high-performance parallax** effects.

- Built rich **animations and parallax scroll effects using GSAP and Framer Motion** to communicate brand identity.

**Stack:** Next.js, JavaScript, Tailwind CSS, GSAP, Klaviyo, Framer Motion, Context API

## Education

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### East West University, Dhaka

2024 – Present

**M.Sc.** in Computer Science & Engineering (CSE) · CGPA: 3.67 / 4.00 (Last Semester)

### University of Dhaka — Technology Unit (NITER)

2019 – 2023

**B.Sc.** in Apparel Engineering · CGPA: 3.85 / 4.00