TANVIRUL ISLAM

Software Engineer (Frontend Focused) | 3+ Years Experience

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Technical Skills

Languages: JavaScript, TypeScript, Python

Frameworks & Libraries: React, Next.js, Redux RTK Query, Vitest, Vue.js, Composition API, 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, Python Fast API, MySQL, MongoDB

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

Professional Experience

Software Engineer Level — II

July 2025 – Present

StarConnect · ***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.
- Improved web application **performance** through SSR, **image optimization**, lazy loading, **reduced API calls**, and RTK Query's normalized **caching**, resulting in **faster load times** and enhanced **Core Web Vitals (reduced FCP & LCP, improved INP, minimized CLS, and optimized TTFB).**
- 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.

Software Engineer — Frontend

Feb 2023 – July 2025

DocTime & Media365 Ltd · ***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

StarConnect

starconnect.com

A platform connecting users with domain experts for consultations, featuring booking systems, dashboards, and real-time video sessions. **Used Technology:** Next.js 15, Nest JS, MySql, TypeScript, Redux RTK Query, Agora RTC SDK, Pusher, Shadcn

- 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 cache layer**.

DocTime

doctime.com.bd

Bangladesh's **leading telemedicine platform** serving thousands of patients and doctors with real-time video consultations, appointment management, and secure payments. **Used Technology:** Next.js, React, Redux Toolkit, TypeScript, Tailwind CSS, Agora RTC SDK, SSL Commerz, PWA

- 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.

Battle for Dhaka — 3D Multiplayer Shooter Game

battle-for-dhaka.vercel.app

A browser-based 3D wave-survival shooter with real-time online multiplayer for up to 10 players. **Used Technology**: React, TypeScript, Three.js, React Three Fiber, Zustand, Node.js, WebSocket, Vitest, PWA

- Built server-authoritative WebSocket multiplayer with a 60 Hz simulation, client-side prediction and lag interpolation.
- Optimised 3D rendering with GPU instancing and geometry batching; shipped as an offline PWA with touch and gamepad controls.

MyBL Care — Telemedicine PWA

Play Store

PWA for Banglalink's MyBL platform, providing telemedicine and medicine e-commerce to millions of subscribers. **Used Technology:** Vue.js, Agora RTC SDK, Pusher.js, **PWA (Service Workers)**, Tailwind CSS

- Built **real-time video consultation** system with in-call chat and a **native-web bridge** for seamless **PWA–app integration**.
- Applied **accessibility** best practices, including **semantic HTML, ARIA roles**, and full **keyboard navigation support** to ensure an inclusive user experience.

DocuRAG Ai

https://rag-frontend-rouge-six.vercel.app

A Retrieval-Augmented Generation (RAG) API for semantic search and AI-powered Q&A over PDF documents. Used Technology: Python, FastAPI, Google Gemini API, Pinecone Serverless, pypdf, Pydantic v2, Render

- Built a PDF ingestion pipeline with async chunking, batch Gemini embeddings, and vector upsert to Pinecone with page-level metadata for accurate citation retrieval.
- Implemented a RAG chat endpoint with semantic vector search and grounded answer generation, returning citations with document name, page number, and relevance scores.

Education

East West University, Dhaka

2024 – 2026

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

University of Dhaka — Technology Unit (NITER)

2019 – 2023

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