

# Afshin Nahian Tripto

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## Software / AI Engineer

**Profile** | The joy of learning always thrills me. I am a responsible and enthusiastic person who loves to take the product ownership. I am proficient in TypeScript/JavaScript with a strong foundation in front-end and back-end technologies. Passionate about RAG applications, AI agents, and crafting scalable full-stack solutions.

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## SKILLS

- **Languages:** TypeScript, JavaScript, Python, Go, Java
- **AI:** AI Agents, Context Engineering, AI Memory, RAG, Skills, Vector DDB
- **Frontend:** Next.JS, React
- **Backend:** Node.js, Nest.js, Go, Strapi JS
- **Databases:** MySQL, PostgreSQL
- **Mobile/ Cross Platform:** React Native
- **CI/CD:** Docker, GitHub Actions, Render, Railway, Netlify, Firebase, Supabase, AWS
- **CMS:** Strapi, WordPress
- **Others:** Framer Sites, WebFlow, Microsoft PowerPoint

## EXPERIENCE

► **Software Engineer**, REDQ Technologies Ltd.(Dhaka, Bangladesh) Apr, 2024 – Present

Tech Stack: Typescript , Next.js, Node.js, Redis, BullMQ, PostgreSQL, Python, Agents SDK, Chroma DB

■ **Product:** TrueBeep (AI powered all-in one marketing platform)

- Implemented **Co-Pilot AI Agent** with agentic and **RAG(Retrieval Augmented Generation)** capabilities that empowers the users to better utilize, navigate and analyze their marketing campaign results.
- Implemented **AI Auto Reply** agent to streamline and automate multi channel inbox conversations.
- Integrated **7+** third-party platforms (e.g., **Instagram, TikTok, Canva, Unsplash**) along with AI image generation using **fal.ai** for seamless digital content creation and sharing.
- Hands on experience working with **Meta Platform APIs** (Facebook, Instagram, WhatsApp)
- Engineered event-driven workflows with **Redis** and **BullMQ**, improving background task processing efficiency and reliability.
- Developed real-time collaboration features via **WebSocket** (Socket.IO), vastly reducing user latency by **~40%**.
- Leveraged **Next.js** (App Router, Server Actions) and **React 19** features like **React Server Components (RSC)** to handle routing and data flow, while building dynamic, responsive UIs with **Tailwind CSS** and **TypeScript**.

► **Senior Full Stack Engineer**, Provision Capital (Texas, USA) Apr, 2024 – Present

Tech Stack: Typescript , React, Slack APIs , Strapi, Next.js, PostgreSQL, Railway, Resend

■ **Product:** Morcel(Social media flavored restaurant menus)

- Built across the full stack with **React 19 + Vite** on the frontend and **Strapi** on the backend, handling everything from API design to the final UI.
- Integrated **Stripe** for subscription billing across restaurant tiers; monetization was live at launch.
- Set up **Resend** for transactional and marketing emails, keeping restaurant owners informed and reducing drop-off.

- Fixed live user issues including broken onboarding, menu rendering bugs, and failed payments before they cost us accounts.
- Joined product and go-to-market discussions and pushed back when proposed features didn't match what users were actually asking for.
- Coordinated with marketing to make sure the landing page reflected what was actually in the product.

#### ■ **Product: Habbah(Automatic charity donation platform)**

- Developed a modular, user-friendly admin dashboard using **React** and **Ant Design**, improving task flow efficiency for end users.
- Integrated **Strapi CMS APIs** to support seamless CRUD operations, enabling dynamic content and data management.
- Implemented secure authentication using **Google SSO** and **JWT**, enhancing login reliability and user onboarding.

#### ■ **Product: NasiQ(Instant IT support powered by AI)**

- Architected and deployed the full NASIQ infrastructure, an AI powered IT support system built on **Next.js**, **Gemini API**, and **OpenAI**.
- Built a queue engine using **Redis** and **BullMQ** to handle concurrent support requests reliably at scale.
- Integrated **Slack** and **Jira** APIs to enable seamless ticket escalation from AI to human agents with full context carried over.
- Owned hosting and deployment setup, getting the product live and stable for beta access and enterprise design partners.
- Delivered instant **AI triage** of user issues including attachment analysis, cutting the time from submission to first response.

#### ■ **Product: Muslim Spaces(Muslim community event management platform)**

- Built the full platform from scratch including a **Next.js** web app, **React Native iOS app**, **Stripe** payments, **Resend** emails, and a queue engine for automated notifications.
- Published the **iOS app** to the App Store, handling the full submission and release process end to end.
- Integrated **Stripe** for payments, subscriptions, and donation management across 500+ Islamic community organizations.
- Set up **Resend** with a queue backed notification system to automate event reminders and community communications at scale.
- Shipped event management covering one-time, recurring, and series events with registration, waitlists, and capacity tracking.
- Delivered real time analytics on revenue, registrations, , giving community admins visibility they didn't have before.

#### ■ **Project: Air Allergen**

- Rebuilt the landing page and booking flow for Air Allergen, an ISO certified AI powered mold and allergen testing lab, using **Next.js**, and managed the full deployment.
- Integrated **Stripe** for online payment processing, enabling customers to pay for lab testing services directly on the site.
- Wired up **Google Calendar API** for appointment booking, letting customers self schedule lab visits without any back and forth.
- Set up **Resend** for booking confirmations and transactional emails, keeping customers informed through the full testing process.

► **Frontend Developer**, Edison Communication Ltd. (Dhaka, Bangladesh)

Jun, 2023 – Apr, 2024

Tech Stack: Next.js, React, Typescript, Node.js

■ **Product: WebManza(Drag & Drop E-Commerce Builder)**

- Improved **SEO** performance by leveraging **Next.js server-side rendering (SSR)**, boosting page indexability and load speed.
- Built efficient data-fetching and caching layers using **Redux** and **RTK Query**, reducing redundant network calls by **~40%**.
- Various E-commerce specific API implementation and feature development
- Focus on next-gen **React & Next.js** Features (**SSR** etc.)
- Used **Strapi CMS** as a headless CMS for small to medium portfolio sites

► **JavaScript Developer**, Delivery Hobe (Dhaka, Bangladesh)

Oct,2021 – May,2023

Tech Stack: Next.js, React, Typescript, Node.js

■ **Product: DeliveryHobe (E-Commerce)**

- Emphasis on **modern React** principles (hooks, functional components and reusable components)
- Handled application state using **Redux**
- Developed robust routing structure using **Next.js**

■ **Product: AdsHobe (B2B Platform for Ads)**

- **Architected** the frontend from scratch using **Next.js**, establishing a scalable and **modular codebase**.
- Ensured type safety and code reliability across the app by leveraging **TypeScript**.
- Implemented secure user authentication using **JWT** and **Redux**, supporting protected routes and session persistence.
- Applied modern React patterns (hooks, functional components) to build clean, reusable UI logic.

■ **Product: Rider App**

- Made an app for the delivery men using **React Native**
- Ported vanilla React Native app to **Expo**
- **Redux** was used for managing the state

► **Founder**, BUTEX NoteBot

Sep,2018 - Present

Tech Stack: JavaScript, Node.js, MySQL, Go

■ **Product: BUTEX NoteBot(Educational Content Delivery Chatbot)**

- Designed and implemented backend architecture using **Node.js** and **Express**, supporting scalable API services.
- Built webhook-driven chatbot functionality via **Messenger Platform SDK**, enabling real-time user interaction.
- Developed and deployed analytics APIs using **Go**, storing structured insights in a **MySQL** database for efficient querying.

■ **Product: BUTEX NoteBot(Web)**

- Designed and developed the web interface for BUTEX NoteBot using **React** and **Tailwind CSS**

# OPEN-SOURCE CONTRIBUTIONS

## ■ simple-messenger-blocks

This NPM package generates common messenger chatbot blocks(buttons, texts, images, cards, grouped button containers)

## ■ ts-stats

Helpful utility functions for basic statistical operations for JavaScript/TypeScript

## ■ bang-utils

Lightweight JavaScript/TypeScript utility library for converting English numerals and dates to Bengali

# CERTIFICATIONS

## ■ Software Architecture Foundations, LinkedIn

## ■ The AI Engineer Path, Scrimba

## ■ AI Agents Fundamentals, Hugging Face

## ■ Ethical Hacker, Cisco

## ■ Introduction to SQL, Simplilearn

# EDUCATION

## **M.S. Computer Science**

United International University, Bangladesh  
GPA: 3.97

## **B.S. Industrial Engineering**

Bangladesh University of Textiles, Bangladesh  
GPA: 3.75