

FARIAN BIN RAHMAN

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Portfolio | [GitHub](#) | [LinkedIn](#)

Profile | Learning is always exciting to me. I am an industrial engineer transitioning to full-stack development. Building reliable and maintainable web applications focusing on functionality, usability, and deployment readiness. Passionate about solving real-world problems using modern technologies.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python

Frontend: React, Next.js, Tanstack Query, Axios, Tailwind, Konva.js, Zustand, Zod

Backend: Node.js, Express.js, GraphQL, JWT, SendGrid

Database: PostgreSQL, MongoDB, Prisma ORM

Realtime: Socket.io, Stream Chat & Video SDK, Pusher

CI/CD: Docker, Vercel, Render, Github Actions

PROJECTS

Go Grind | React · Tanstack Query · Stream SDK · Zustand · MongoDB

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- Developed a real-time focus and accountability platform with virtual study rooms, video calls, and live chat.
- Implemented JWT authentication, role-based access, and secure REST APIs using Express and MongoDB.
- Built a responsive frontend with React 18, Zustand, and React Query for state and data management.
- Integrated Stream Video React SDK for live sessions and user interaction features such as streaks and activity tracking.

Think Space | React · Konva.js · Express · Socket.io · Prisma · PostgreSQL

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- Engineered a real-time shared whiteboard app where users can create, move, resize, edit, and delete sticky notes with changes syncing instantly across clients using Socket.io.
- Built a frontend with React + Vite using react-konva for canvas interactions, optimized for mobile and touch input.
- Designed backend APIs and WebSocket workflow in Node.js + Express; used Prisma with PostgreSQL (via Supabase) for persistent storage of boards and notes.
- Implemented optimistic UI updates for a snappy user experience.

Subscription Manager | GraphQL · Apollo · MongoDB · React · Passport.js

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- Developed a full-stack application allowing users to manage their recurring subscriptions, monitor upcoming renewals, and receive email alerts one day in advance.
- Built backend using Node.js, Express, and Apollo Server for GraphQL endpoints; implemented authentication via Passport.js and password hashing with bcrypt.
- Integrated email verification and scheduled reminder jobs using Nodemailer connected to SendGrid SMTP and node-cron.
- Created a responsive frontend with a dashboard that displays subscription history, statistics, and user settings.

Kotha Barta | Next.js · TypeScript · Prisma · Pusher · MongoDB

Live • GitHub

- Built a responsive real-time chat platform supporting one-on-one and group conversations with message delivery, read receipts, and presence indicators.
- Implemented secure multi-provider authentication (Google, GitHub, Email/Password) with NextAuth and bcrypt password hashing.
- Integrated Pusher WebSockets for instant updates, typing indicators, and online status synchronization.

Repo Hunter | React · TypeScript · GraphQL

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- Built a sleek GitHub repository explorer using GitHub GraphQL API with Apollo Client for fast, on-demand data fetching.
- Implemented repository insights display, including stars, commits, creation dates, and top stargazers.

WORK EXPERIENCE

Value Chain Executive, Unifill Group

Nov 2022 - May 2025

- Utilized data-driven forecasting methods to optimize raw material procurement and reduce excess inventory costs by 15%.
- Collaborated with enterprise resource planning (ERP) team to streamline order processing and enhance supply chain transparency.

EDUCATION

Bachelor of Science in Industrial Engineering

Jan 2017 - Sep 2022

Bangladesh University of Textiles | CGPA: 2.99/4.00

- Courses: Computer Programming, Statistics, Product Design, Supply Chain Management
- Thesis on "Bottleneck Analysis with Constraint Linear Solving Optimization using Simulation and IBM CPLEX".

CERTIFICATIONS & ACHIEVEMENTS

- Python for Data Science, AI & Development - IBM
- Runner-Up, Lakshmipur Regional Math Olympiad (2014)
- Runner-Up, Intra University Business Case Competition (2017)
- English Proficiency - IELTS 7.5