

# MUSHFIQUR RAHMAN

## Software Engineer

### About Me

Full Stack Developer specializing in the MERN stack and Next.js. As a Frontend Engineer Intern at Racdox, I architected dynamic SaaS interfaces and managed complex API integrations. I also bring QA and Project Management experience as a UTest Ambassador. Passionate about Generative AI, I specialize in integrating diverse AI models and thrive in collaborative, innovative environments.

### CONTACT

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### SKILLS

**Languages:** JavaScript (ES6+), TypeScript, C++, SQL, HTML5, CSS3

**Frontend:** Next.js (App Router), React.js (v18/19), Tailwind CSS, Shadcn UI, Radix UI, DaisyUI, Vite

**Backend & Database:** Node.js, Express.js, MongoDB, Firebase (Auth/Firestore), Appwrite, MySQL

**AI Engineering:** Generative AI Integration (Gemini), Vercel AI SDK, Vapi Voice AI, Prompt Engineering

**Tools & DevOps:** Git, GitHub, Docker, Postman, Vercel, Netlify

### WORK EXPERIENCE

#### Frontend Engineer Intern

Racdox

FEB 2025 – JUNE 2025

- **Developed** "NoteShake," a SaaS application, utilizing Next.js and Tailwind CSS to create responsive, high-performance user interfaces.
- **Architected** complex user profile modules and dashboard features, improving user data management efficiency.
- **Integrated** RESTful APIs within a Dockerized environment, ensuring seamless communication between frontend and backend services.
- **Collaborated** closely with backend engineers to define API schemas and optimize data fetching strategies.

#### QA Ambassador

UTest

SEP 2024 – PRESENT

- **Managed** end-to-end testing lifecycles for international clients, ensuring software met strict quality assurance standards.
- **Led** a team of testers to execute test cases, reporting critical bugs and providing actionable feedback to development teams.
- **Optimized** testing workflows, resulting in faster bug detection and improved product stability.

### EDUCATION

**Bachelor in Computer Science and Engineering** – International Islamic University Chattogram  
2023-Pursuing

## ACHIEVEMENTS

- NextGen Hackathon - 2025

### **1<sup>st</sup> runners-up**

- Led "Team 3Zeros" to secure 2nd place among 50+ teams (140+ participants) in a 24-hour national hackathon.
- Architected "Upscale," an AI-powered career platform, integrating Gemini 2.0 and Vapi Voice AI under strict deadlines.

- Intra Department Tech Hackathon - 2025

### **Champion**

- Secured 1st place by developing "FarmLink," a complex multi-role agricultural marketplace.
- Designed and implemented the full-stack architecture, including a custom "price freshness" algorithm and role-based access control.

## PROJECTS

### **UPSCALE – NEXT.JS 14, TYPESCRIPT, MONGODB, GEMINI AI, VAPI VOICE**

**[LIVE SITE](#)**

- Developed an AI-driven career acceleration platform that generates personalized learning roadmaps using Google Gemini 2.0 Flash.
- Engineered a real-time, voice-based mock interview system using Vapi AI, providing users with instant feedback on confidence and clarity.
- Implemented an ATS-optimized resume analyzer and a smart job matching algorithm to bridge the gap between skills and opportunities.
- Built a comprehensive dashboard tracking skill progression, application status, and interview scores.

### **KRISHI – REACT.JS, FIREBASE (AUTH + FIRESTORE), CLOUDINARY, TAILWIND**

**[LIVE SITE](#)**

- Architected a multi-role marketplace (Farmer, Buyer, Agent, Admin) featuring complex verification workflows and Role-Based Access Control (RBAC).
- Designed a dynamic "Price Freshness" algorithm that automatically depreciates prices for older stock to reduce waste.
- Integrated a secure escrow-style payment simulation and real-time notification system using Firestore listeners.
- Created a high-performance Admin Dashboard providing real-time analytics on user distribution, order volume, and platform growth.

### **AI-INTERVIEW – NEXT.JS 15, TYPESCRIPT, FIREBASE, VAPI AI**

**[LIVE SITE](#)**

- Developed a voice-first interview platform using Next.js 15 and React 19, enabling users to practice technical interviews with realistic AI agents.
- Integrated VAPI AI for natural, low-latency voice interactions and Google Gemini (via Vercel AI SDK) for generating context-aware technical questions.
- Implemented real-time feedback systems providing instant performance analysis and transcript generation using Firebase for secure data persistence.
- Designed a modern, accessible UI with Tailwind CSS 4 and Radix UI, supporting dynamic dark mode and responsive layouts.

### **TMD SUPPORT SYSTEM – REACT 19, APPWRITE, TAILWIND CSS 4, RECHARTS**

**[LIVE SITE](#)**

- Engineered a comprehensive transport management solution connecting students and administrators via separate, role-protected dashboards.
- Leveraged Appwrite for backend services, handling real-time database updates for bus schedules, route management, and seat reservations.
- Built an AI-powered bus assignment suggestion system to optimize fleet usage and reduce administrative overhead.
- Implemented a real-time announcement system and "Bus Finder" feature using React Router v7 and React Hook Form.