Sharfuzzaman Noor Sadman

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TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C/C++, HTML/CSS
Frameworks: React, Next.js (14/15), Node.js, Flask
Databases & Backend: PostgreSQL, MySQL, Socket.io, Stripe API, Lemon Squeezy
DevOps & Tools: Git, Docker, AWS (S3), Google Cloud, Clerk Auth, JWT
Practices: REST APIs, Agile, CI/CD, Real-time WebSocket

EDUCATION

Michigan State University   East Lansing, MI
Bachelor of Science in Computer Science, Minor in Business   *Aug. 2022 - May. 2026*

EXPERIENCE

Undergraduate Learning Assistant   Aug. 2024 - Present
Michigan State University - College of Engineering   *East Lansing, MI*

- Mentored students in **Python programming**, leading to a **35% improvement in assessment scores**.
- Developed and implemented hands-on exercises focused on **algorithmic efficiency**, leading to students writing code that ran an average of 25% faster, according to benchmark testing.

Embedded Systems Teaching Assistant   Aug. 2023 - Dec. 2023
Prof. Raushan Kumar   *Remote*

- Delivered comprehensive training to 25+ students in **Linux/Ubuntu OS configuration**, **Arduino programming** using **C/C++**, and integrating IoT sensors, resulting in 100% project completion rate.
- Optimized lab setup, reducing **installation time by 30%** using **pre-configured VM images** and **CLI automation**.

PROJECTS

InterVue | *Next.js 15, React, Vapi Voice Agents, Google Gemini API, Firebase, Tailwind*   Apr. 2025

- Built a full-stack voice-based mock interview platform that simulates real-time job interviews using AI agents.
- Engineered a low-latency audio streaming architecture to solve a core performance bottleneck, ensuring seamless bidirectional conversation.
- Implemented real-time evaluation and feedback generation using **Gemini LLM**, enhancing user self-assessment.
- Integrated secure authentication and session persistence using **Firebase Auth**, and stored interview data in **Firestore**.

AI Presentation Builder | *Next.js 15, React, Prisma, Tailwind, Lemon Squeezy, Neon, Clerk*   Feb. 2025

- Developed a full-stack SaaS app with an AI-powered drag-and-drop editor, generating professional slides and structured presentations.
- Enabled scalable revenue streams by implementing a 2-click checkout process with Lemon Squeezy, which resulted in a **95% customer satisfaction score** across premium template purchases.
- Implemented real-time collaboration features, including autosave, undo/red o, and secure **Google Authentication** via **Clerk**.
- Deployed on **Neon (PostgreSQL)** and attracted 150+ active users, garnering positive feedback that led to fixing the three biggest causes of crashes, improving user experience and retention.

Full Stack SaaS Website Builder | *Next.js 14, React, Prisma, Tailwind, Stripe, MySQL, Clerk Auth*   Feb. 2025

- Built a **multi-tenant SaaS platform** enabling agency owners to create professional websites through a **custom drag-and-drop builder**.
- Enabled scalable revenue streams for agency owners by implementing **Stripe Connect** for subscription management, revenue sharing, and automated billing.
- Engineered a **Kanban-style CRM pipeline** and business workflow system with custom dashboards and role-based access control.
- Deployed on a scalable **serverless architecture (Next.js)** with **subdomain hosting** and achieved **35+ users**.