

MD MIHRAZ HOSSAIN NILOY

Software Engineering Undergraduate

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PROFESSIONAL SUMMARY

Software Engineering undergraduate with expertise in blending machine learning, full-stack web development, and systems programming. Experienced in shipping production-ready applications, edge inference solutions, and accessible UI design systems. Strong background in C++ competitive programming, AI model optimization, and building intelligent web applications.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript/TypeScript, Java, HTML/CSS

Web: Next.js 16, React 19, Node/Express, Tailwind CSS 4, Vite, PWA

Design & UI: Shadcn UI, Adobe Photoshop, Adobe Illustrator

AI & ML: LLM Integration (OpenAI, Gemini, Groq)

Databases: Supabase, PostgreSQL, Clerk Auth

Core: DSA, System-Level Programming, Edge Inference, Win32 API

WORK EXPERIENCE

Freelance Designer & Developer

Sep 2019 – Present

Fiverr — Remote

- Delivered design and development services to international clients through the Fiverr freelance marketplace.
- Produced graphic design assets, web interfaces, and custom software solutions across a variety of domains.

HopeShop BD | *Next.js 16, React 19, TypeScript, Supabase, Tailwind CSS 4, PostgreSQL*

- Built a production-ready, full-stack e-commerce platform designed for high performance and scalability.
- Developed a comprehensive Admin Dashboard featuring real-time revenue analytics (Recharts), complex inventory management, and integrated customer chat.

HOMIO — AI Text Humanizer & Detector | *Next.js, TypeScript, NLP, LLMs (Groq, OpenAI, Gemini)*

- Engineered a web application capable of detecting AI-generated content and systematically rewriting it to bypass detection algorithms.
- Integrated multiple large language models to accurately "humanize" text while preserving original meaning.

FairShare — Group Expense Splitter | *React, TypeScript, Vite, Supabase*

- Created a modern, mobile-first web application for simplified shared expense management among friends and roommates.
- Engineered automated balance calculation algorithms with Supabase for authentication and real-time data storage.

SCU CGPA Calculator Desktop App | *C++, Win32 API, GDI+*

- Developed a native Windows desktop application to dynamically calculate CGPA based on the university curriculum.
- Built a custom GUI from scratch demonstrating low-level Windows programming: message loops, resource management, and high-performance rendering.

EDUCATION

B.Sc. in Software Engineering

Sep 2023 – Jul 2027

Sichuan University, Sichuan, China

- Relevant Coursework:** Fundamentals of Programming, Digital Logic, Discrete Mathematics, Introduction to Computer Systems, OOP, Data Structures & Algorithms, Computer Architecture, Operating Systems, Database Systems, Software Engineering, Computer Networks.
- Activities:** Active participant in competitive programming contests; developed browser-based applications.

LANGUAGES

English — Fluent Bengali — Native Chinese — Elementary Hindi — Conversational