SAJIB RAFI HOSSAIN

sajibrafihossain@gmail.com — linkedin.com/in/sajib-rafi-hossain — github.com/rafihoss — rafihoss.github.io/Landing-Page/

Education

Queens College, City University of New York — Expected May 2027
Bachelors in Computer Science, Minor in Mathematics — *Queens, New York*

Technical Skills

Languages: Python · JavaScript · Java · C++ · HTML · CSS

Technologies/Frameworks: React.js · Next.js · JQuery · Firebase · Excel

Experience

Incoming Software Engineering Fellow — **Fall 2025**
CUNY Tech Prep — *Remote*

Software Engineering Fellow — **July 2024 – September 2024**
Headstarter AI — *Remote*

- Engineered and deployed **5** AI-powered web applications, targeting scalability and user growth.
- Led a team in developing full-stack web applications using Next.js, React, Firebase, and other technologies, reducing development time by **30%** through implementing modular components and CI/CD workflows.
- Optimized workflows, enhancing project delivery speed, ensuring seamless integration of modern web technologies like OpenAI, Pinecone, Stripe, and Clerk auth.

Web Developer Fellow — **September 2023 – April 2024**
CodePath — *Remote*

- Expanded proficiency in web development technologies, including HTML, CSS, JavaScript, and React.js, through intensive training and project-based learning.
- Integrated API calls into the website, utilizing frameworks to fetch data and parse JSON responses from an unfamiliar API.
- Facilitated team-based coding sessions, optimizing project delivery times through effective code reviews and pair programming.

Software Engineering Intern — **February 2023 – April 2023**
CTE Industry Scholars Program — *Remote*

- Designed and developed a dynamic website using HTML, CSS, and JavaScript to showcase an author and influencer's radio show, books, and events.
- Increased site visits and gained a **15%** boost in product purchases by improving user experience and implementing optimized design strategies.
- Worked closely with the media team to align digital content and visual elements, ensuring cohesive branding and promotional success.

Projects

AI Powered Expense Tracker — **JavaScript, React, Next.js, OpenAI API, Firebase, Clerk, Material-UI**

- Built an AI-powered expense tracker that allows users to split costs seamlessly using natural language input, with OpenAI extracting key details like amount, participants, and balances for automated calculations.
- Integrated Firebase for real-time data storage and Clerk for authentication, ensuring secure access, persistent user data across sessions, and a seamless user experience with automated expense tracking and retrieval.

AI Flashcard SaaS — **JavaScript, React, Next.js, OpenAI API, Firebase, Stripe, Clerk**

- Developed a full-stack flashcard web app that dynamically generates, saves, and organizes flashcards using Firestore's hierarchical data structure for efficient retrieval and real-time updates.
- Integrated Stripe for subscription payments and implemented Clerk authentication, enabling secure user access, premium feature management, and a scalable payment system.

AI-Powered Rate My Professor Assistant — **Next.js, React, OpenAI, Pinecone, RAG**

- Developed an AI-driven chatbot that retrieves and ranks professor recommendations based on student queries, leveraging OpenAI embeddings and Pinecone vector search for efficient data retrieval.
- Designed and implemented a responsive, user-friendly interface using React and Material-UI, enabling students to query and receive detailed, real-time professor insights with structured recommendations.