

SAJIB RAFI HOSSAIN

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Education

Queens College, City University of New York

Bachelors in Computer Science, Minor in Mathematics

Expected May 2027

Queens, New York

Technical Skills

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

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

Relevant Coursework

- Algorithmic Problem Solving, Object-Oriented Programming, Discrete Structures, Comp Org & Assem Lang, Data Structures & Algorithms

Experience

Headstarter AI

July 2024 – September 2024

Software Engineering Fellow

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.

CodePath

September 2023 – April 2024

Web Developer Fellow

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.

CTE Industry Scholars Program

February 2023 – April 2023

Software Engineering Intern

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.