

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 · TypeScript · Java · C++ · HTML · CSS

Technologies/Frameworks: React.js · Next.js · Tailwind CSS · JQuery · Firebase · Node.js · Express.js · PostgreSQL · DynamoDB · AWS · Vitest · Git/GitHub · Bash Command Line

Experience

Software Engineering Fellow

July 2025 - Present

CUNY Tech Prep

Remote

- Selected for a competitive, year-long fellowship for top CUNY computer science students, focusing on full-stack web development, cloud technologies, and professional software engineering practices.
- Training includes client- and server-side development, serverless microservice APIs, ORMs, relational/NoSQL databases, TDD/BDD, CI/CD, security, Agile teamwork, and responsible AI agent integration.
- Working with a modern tech stack: HTML, CSS, TypeScript, React, Next.js, Tailwind, Node.js, Express, PostgreSQL, DynamoDB, AWS, Git/GitHub, and Bash command line.
- Participate in collaborative projects, mock technical interviews, and career coaching to strengthen both technical and professional skills.

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.

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.