

# SADIT HUSSAIN

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## EDUCATION

### THE CITY UNIVERSITY OF NEW YORK

*Bachelor of Science*

**New York, NY**

*Expected May 2028*

- Major: Computer Science | Intended Minor: Economics
- Relevant Coursework: Data Structures, Computer Systems, Statistics for Computer Science, Intro to Computer Programming, Discrete Math, Calculus III

## SKILLS

- **Languages:** Python, Java, C++, JavaScript, TypeScript, HTML/CSS
- **Frameworks & Libraries:** Next.js, React, Tailwind CSS, Node.js, Discord.js, Tkinter
- **AI/ML:** LangChain, Google Gemini API, RAG Architecture, Chroma DB
- **Developer Tools & Platforms:** Git, GitHub, GitHub Actions

## EXPERIENCE

### CUNY RAG Chatbot | [GitHub Repository](#)

**New York, NY**

*AI Engineer Intern*

*July 2025 - Present*

- Engineered a full-stack Retrieval-Augmented Generation (RAG) chatbot using Python, LangChain, and the Google Gemini API to deliver accurate, context-aware answers for incoming CUNY freshmen.
- Built a dynamic knowledge base by designing a data pipeline to process PDFs and CSVs, embedding content into a Chroma vector database for rapid semantic search.
- Implemented a multi-tier filtering system enabling users to scope results by specific CUNY school and content category, improving response relevance and user experience.

### RQM TUTORIAL

**New York, NY**

*Math Tutor*

*Apr 2024 - Oct 2024*

- Led curriculum planning and staff supervision across eight subjects while mentoring classes of 10+ high school students in Algebra and Calculus.

### THE STANLEY MANE '52 RESEARCH INSTITUTE

**New York, NY**

*Researcher*

*Oct 2023 - Jan 2024*

- Applied advanced data collection and analysis techniques (e.g., ATP assay) to measure and analyze organism viability post-cryogenic exposure.

## PROJECTS

### Portfolio Website | [Live Demo](#) | [GitHub Repository](#)

*May 2025 - Present*

- Developed a website using a modern tech stack, including Next.js, React, TypeScript, and Tailwind CSS
- Implemented an automated process using GitHub Actions to automate building and deploying a static website to GitHub Pages
- Built interactive UI elements with advanced CSS techniques such as pseudo-element underlines and fluid hover-state animations

### Calculator Application | [GitHub Repository](#)

*Dec 2024 - Jan 2025*

- Developed a calculator with a functioning GUI using Tkinter
- Engineered a multi-step arithmetic logic to handle complex, chained operations, surpassing the limitations of basic single-operation calculators.

### Discord Bot | [GitHub Repository](#)

*Oct 2024 - Nov 2024*

- Developed a Discord bot using discord.js, a Node.js module that allows interaction with the Discord API
- Leveraged the Discord API for moderation, utility, and server management features.

## ACTIVITIES

### ASSOCIATION FOR COMPUTING MACHINERY

**New York, NY**

*Member*

*September 2024 - Present*

- Participated in advanced backend database management workshops, using SQL optimization and database security practices
- Developed proficiency in data structures, algorithms, and database optimization through rigorous interview preparation