SADIT HUSSAIN

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EDUCATION

THE CITY UNIVERSITY OF NEW YORK   **New York, NY**
Bachelor of Science   *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:** C++, Java, Python, JavaScript, TypeScript, HTML/CSS
- **Frameworks & Libraries:** Next.js, React, Tailwind CSS, Node.js, Discord.js, Tkinter
- **AI & Machine Learning:** LangChain, Flowise, Google Gemini API, Chroma DB, RAG Architecture
- **Developer Tools & Platforms:** Git, GitHub, GitHub Actions

EXPERIENCE

CUNY RAG Chatbot | GitHub Repository   **New York, NY**
AI Engineer Intern   *July 2025 - Present*
- Developed a full-stack RAG chatbot using Python, LangChain, and the Google Gemini API to provide CUNY freshmen with accurate answers to common questions
- Created a dynamic knowledge base by creating a data pipeline that processes PDF and CSV documents and embeds them into a Chroma vector database for efficient semantic search
- Designed a multi-level filtering system, allowing users to scope the chatbot's knowledge to a specific CUNY school and content category for highly relevant responses

RQM TUTORIAL   **New York, NY**
Math Tutor   *Apr 2024 - Oct 2024*
- Taught classes of 10+ high school students on Algebra and Calculus, using interactive lesson plans to ensure engagement
- Provided one-on-one individualized lesson plans through custom diagnostics to ensure complete understanding and retention
- Supervised staff and directed curriculum planning across eight subjects, ensuring effective course load management

THE STANLEY MANE '52 RESEARCH INSTITUTE   **New York, NY**
Researcher   *Oct 2023 - Jan 2024*
- Conducted experimental research on tardigrades, focusing on survival duration and capability under cryogenic conditions
- Investigated cryptobiosis mechanisms and assessed their role in organismic resilience during extreme freezing
- Applied advanced data collection and analysis, such as ATP assay, to measure tardigrade viability post-cryogenic exposure

PROJECTS

Portfolio Website | Live Demo | GitHub Repository   *May 2025*
- 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
- Can evaluate long expressions instead of being limited to a single operation at once

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.
- Used Git and GitHub for version control, and learned development and debugging techniques

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