Zain Magdon-Ismail

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Github: `https://github.com/ZainMI`

Education

Rensselaer Polytechnic Institute   **August 2022 - May 2026**
Bachelor of Science in Computer Science
GPA: 3.71/4.0

Awards: Dean's Honor List (Fall 2022, Spring 2023, Fall 2023)

Coursework: Intro to Algorithms; Linear Algebra; RCOS; Intro to Game Programming; Foundations of Computer Science; Computer Organization; Data Structures;

Experience

Computer Science Mentor   **August 2023 - Present**

- Mentored and Guided Introductory Computer Science Students

- Employed a guided mentoring approach, encouraging mentees to independently explore and problem-solve while providing strategic guidance toward effective solutions.

- Facilitated mentee growth by providing constructive feedback and encouraging self-reflection.

Software Engineer Intern   **May 2023 - August 2023**
Smalltalk

- Utilized Named Entity Recognition to extract key information from recording transcripts, enabling easy topic lookup.

- Introduced real-time captioning and live transcription for improved user engagement.

- Revamped website interface for better aesthetics and functionality.

Skills

- Programming Languages: Python, C++, C, C#, Java, Latex

- Web Development: React, TypeScript, JavaScript, HTML, CSS

- Database Management: PostgreSQL, SQL

- Version Control: Git, Perforce

- Problem Solving and Debugging

Projects

Bleach Brave Souls Auto Farm   **August 2023 - Present**

- Developed Python-based image recognition automation for the game Bleach Brave Souls, optimizing resource farming efficiency.

- Enhanced user experience by creating a user-friendly GUI and setup wizard for efficient utilization of the auto farming tool.

Travel Planner   **November 2022 - December 2022**

- Designed a dynamic C++ travel planner, leveraging various data structures for efficient itinerary management.

- Engineered algorithms for streamlined activity scheduling, significantly enhancing the overall travel planning experience.