

# MD Raiyan Haque

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## EDUCATION

### Georgia State University

Bachelor of Science,  
Major: Computer Science, Minor: Finance  
US Academic Presidential Scholarship — GPA: 3.75

Atlanta, GA

Expected Graduation: May 2027

## TECHNICAL SKILLS

**Operating System:** Ubuntu, Linux, Windows, macOS

**Libraries/Frameworks:** AWS, Microsoft Azure, ReactJS, SQLite, Spring Boot, Pandas, NumPy, Matplotlib, Node.js

**Languages:** Python, Java, JavaScript, SQL, MySQL, Swift, C++, C#, HTML5, CSS

**Developer Tools:** VS Code, Git, Xcode, Postman, ngrok, PyCharm

## EXPERIENCE

### Georgia State University

#### Undergraduate Research Assistant

Atlanta, GA

October 2023-Present

- Developed a front-end website integrated with DataHub, providing data access to over 500 teachers and researchers, improving research efficiency by 30%.
- Configured and deployed a Virtual Machine, installed Docker, and set up DataHub, reducing setup time by 40% and improving data management efficiency by 25% for over 400 users.
- Performed a requirements analysis to identify the minimal viable feature set for optimal DataHub server performance and scalability.
- Aggregated and structured data packets, utilizing SQL for efficient storage and retrieval within DataHub, enhancing data organization and accessibility.

### RocketTech GSU

#### Software Engineer

Atlanta, GA

February 2024-Present

- Developed flight control software in C++ to integrate the MPU6050 for motion sensing and data acquisition, achieving data accuracy within 2% and reducing system latency by 35%.
- Implemented data smoothing algorithms to enhance the accuracy of accelerometer data from the MPU6050, increasing data reliability by 40% and reducing noise levels by 25% for precise flight analysis.
- Implemented data acquisition and logging from the BMP280 sensor to flash memory, ensuring accurate recording of temperature and pressure readings at defined intervals.
- Designed and developed a real-time data transmission system using nRF24 to wirelessly transmit sensor data to a ground station, achieving a data transmission rate of 1 Mbps and reducing latency by 50% for immediate monitoring and analysis.

### Georgia State University

#### Student Assistant (Event Coordinator)

Atlanta, GA

September 2023-Present

- Assisted with organizing events, including commencements for over 8,000 attendees, improving execution and coordination.
- Maintained professionalism in handling phone calls, routing inquiries, and managing email correspondence.
- Entered and managed over 1,000 student records in the database using advanced Excel functions for data validation and integration, improving data accuracy by 20%.

### ChemTalk

#### Part-time Writer

Remote

March 2023-October 2023

- Authored 5+ educational articles on chemistry topics and collaborated on reports and presentations, boosting readership by 10%.
- Prepared reports, presentations and other materials.
- Adhered to SEO principles, with articles consistently ranking on the first page of Google and achieving a 40% increase in organic traffic.

## PROJECTS

### Golapi Care - HackHarvard 2023

Developed a web application employing machine learning algorithms to identify Mild Cognitive Impairment symptoms in the elderly by classifying behavioral and wearable sensor data. Achieved a classification accuracy of 65% and processed data from over 40 wearable sensors, making the tool accessible and effective for widespread use.

### Note!t - UGAHacks 2024

Developed Note!t, an advanced note-taking application that integrates an AI Chatbot Math Solver, Image-to-Text Transcriber, and Digital Assistance for enhanced comprehension. Designed with Python, JavaScript, and ReactJS, the app features a sticky note system for PDFs, enabling seamless annotation and real-time reference. Utilized machine learning algorithms for problem-solving and optical character recognition (OCR) for text extraction, optimizing user interaction and data management.