MD Raiyan Haque

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EDUCATION

Georgia State University **Atlanta, GA**
Bachelor of Science, Expected Graduation: May 2027
Major: Computer Science, Minor: Finance
US Academic Presidential Scholarship — GPA: 3.75
Relevant Coursework: Data Structures, System Level Programming, Software Development, Computer Organization and Programming

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 **Atlanta,GA**
Undergraduate Research Assistant 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 **Atlanta, GA**
Software Engineer 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 **Atlanta, GA**
Student Assistant (Event Coordinator) 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%.

PROJECTS

WellCo | Your Wellness Companion - AIATL 2024

Developed an AI-driven wellness platform integrating Google's Gemini API to provide personalized mental and physical health guidance. Built with a React frontend and Firebase for user data management, WellCo delivers tailored fitness routines, stress management tips, and conversational mental health support. Implemented efficient request handling and context-based session storage to streamline real-time interactions and ensure smooth user experience.

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.

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.