Muhammad Aazain Irfan

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TECHNICAL SKILLS

Python, Java, C#, C, HTML/CSS, JavaScript, APIs, JSON, Data Structures and Algorithms, Object Oriented Programming, Git, GitHub

CERTIFICATIONS/ACHIEVEMENTS

Mentor by Mentor Collective: [August 2022-present]

Guiding over 8 students to be successful in their introductory programming courses by introducing them
to effective study techniques, also conducting weekly meetings to review their progress, ensuring
optimal learning experiences and course alignment.

IBM full stack developer certification:

Working towards the IBM Full Stack Software Developer Professional Certificate, an intensive program
focused on practical full-stack development skills including Cloud Native methodologies, front-end
technologies (HTML, CSS, JavaScript, React), back-end development (Node.js, Python, Django), and
deployment tools (Docker, Kubernetes, Microservices).

Scholarships:

- International Recognition Award (Merit Based Scholarship).
- Recipient of Departmental Richard Tapia Diversity in Computer Science Scholarship

EDUCATION

James Madison University - Class of '25

Harrisonburg, VA

B.S in Computer Science

2022-2025

PROJECTS

Catch Up, a Social Media Aggregation Web App

Ongoing Project

- Collaborating with a colleague in engineering CatchUp, a social media aggregation platform that will be capable of displaying content from various Social media platforms such as TikTok, Instagram and YouTube into a unified interface.
- Aims to enhance user experience by eliminating the need for multiple Social media apps.
- Project utilizes various APIs such as: Instagram Graph API, TikTok Display and YouTube Data API to fetch and display user generated content on our platform.
- Focuses on creating a user-friendly front-end interface using HTML, CSS and Java Script and React for efficient navigation within the app.

Healthy Lifestyle Empowering Personal Health Management

Sophomore Year

- Collaborated with a partner to design "Healthy Lifestyle," A web app that comprises features such as BMI calculation, stress checking, age prediction, and calorie tracker to monitor wellness of JMU community.
- Resolved challenges in UI/UX design and data handling, enhancing user engagement.
- Leveraged technologies such as HTML, CSS, JavaScript to enhance user-centric design and integrated APIs such as Canvas API.
- Received over 100 positive reviews from academic community on the app's effectiveness.
- Project honed my skills in frontend development and collaborative software engineering

Asteroid Game (Eclipse, Java):

Sophomore Year

- Created an Asteroid Game in Java with an interactive GUI for dynamic gameplay, involving a ship navigating
 in space among asteroids.
- Gameplay included strategic asteroid destruction via bullets, earning points for high scores.
- Implemented 26 distinct classes (e.g., asteroids, ships, bullets) using interfaces and ENUMS for flexibility and maintainability of code
- Overcame challenges in collision detection, gameplay balance, and code optimization.
- Resulted in the delivery of a polished gaming experience, enhancing technical Java skills, Eclipse proficiency, and OOP understanding

Virtual Assistant (C#, Microsoft speech recognition API)

Sophomore Year

- Developed an interactive Virtual Assistant using C# and the Microsoft Speech Recognition API, allowing voice command recognition and execution.
- Engineered the application to handle specific voice commands for user interactions and to execute system commands, such as opening web and desktop applications.
- Refined skills in C# programming, API integration, and understanding of speech recognition technologies