

Muhammad Alyan Asmat

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EDUCATION

UNIVERSITY of HOUSTON

Houston, TX | Aug 2022 - present

- **B.S. - Computer Science**

Exp Grad - May 2026

RELEVANT COURSEWORK

- Programming and Data Structures & Linear Algebra. Fall 2023
- Discrete Math & Computer Organization and Architecture. Spring 2024
- Data Structures and Algorithms & Automata. Fall 2024
- Calculus I/Calculus II. Fall 2022/Spring 2023

WORK EXPERIENCE

Coder Kids, Lead Tutor

Houston, TX | Mar 2023 – Jul 2023

- Taught foundational programming concepts to up to **20** students at a time aged 5–10 using **Scratch**, emphasizing logic, loops, and **event-driven development**.
- Instructed beginner **Python** programming, introducing syntax, variables, and control flow, and led interactive game development projects using the **pygame** library.
- Utilized strong communication skills to adapt technical instruction for various age groups, ensuring engagement and comprehension across a range of learning styles.

TECHNICAL PROJECTS

AI Chatbot, JavaScript/NextJS/Postman/OpenAI

Aug 2024

- Built an AI-powered chatbot using Next.js and the OpenAI API, enabling dynamic user interaction through server-side rendering and **API integration**.
- Utilized Postman to test and debug backend endpoints, ensuring accurate **request/response** cycles between the chatbot and OpenAI's language model.
- Implemented asynchronous API calls and state management to provide real-time responses and a smooth user experience.

Online Portfolio, ReactJS/Javascript//HTML/CSS

Aug 2025

- **Developed** and **deployed** a personal portfolio website using ReactJS, HTML, CSS, and JavaScript to showcase software projects and skills.
- Built custom reusable **React components** for responsive design and interactive functionality.
- **Deployed** the site using **GitHub Pages** and configured a custom domain via **Cloudflare** for DNS management and secure delivery.

Cardio Medical, JavaScript/HTML/CSS – In Progress

May - Jul 2025

- Developing a **responsive** website for a student-led medical organization using HTML, CSS, and JavaScript to provide resources, updates, and information.
- Collaborating with a team of **10+ members** to gather requirements, implement design feedback, and ensure the site meets the organization's branding and functional needs.
- Focusing on a clean **UI/UX design**, applying modern web design practices to enhance accessibility and engagement.

LEADERSHIP EXPERIENCE

Coder Kids, Lead Tutor

Mar 2023 - Jul 2023

- Assisted with curriculum feedback and helped improve program structure for better student engagement.
- Demonstrated leadership by mentoring students through challenges, fostering confidence, and encouraging problem-solving and creativity in coding.
- Adapted teaching methods and communication styles to meet individual learning needs, promoting an inclusive and inspiring learning environment.

TECHNICAL SKILLS

- **Languages:** C++, Python, Java, JavaScript, HTML/CSS
- **Frameworks/Libraries:** React.js, Next.js, Tailwind, Bootstrap, pygame
- **Tools/Technologies:** Git, GitHub, Subversion, Postman, Cloudflare, VSCode