

TARIQ ACHOR ZYAD

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Education

University of Houston

Bachelor of Science in Computer Science

August 2020 – May 2024

3.37 GPA

Relevant Coursework:

Software Design (COSC 4353), Algorithms and Data Structures (COSC 3320), Introduction to Networks (COSC 4377)

Experience

The University of Houston, Computer Science Department

Academic Support Assistant

August 2022

Houston, TX

- Coordinating with the course instructor to boost and maintain the **class GPA** above a **3.0**.
- Guiding **150 students** through fundamental principles of **C++** and **object oriented programming (OOP)**.
- Facilitating in-class lab time twice a week by providing face-to-face **code review** and assistance to students.
- Communicate complex memory management and OOP concepts in office hours twice a week.

Technical Skills

Languages: TypeScript, JavaScript, Python, C++, Java, HTML/CSS

Technologies/Frameworks: Next.js, TailwindCSS, React.js, Node.js, Jest, MongoDB

Projects

Gibraltr Visa Searcher | *Next.js, TailwindCSS, JavaScript*

January 2023

- Outlined a professional user experience (UX) that connects passport holders with **over 3000** travel restrictions.
- Integrated dynamic routes to arrange visa requirements for **199 nationalities** from a Passport Index API data set.
- Tailored a informative and intuitive user interface (UI) for multiple pages comprised of over a dozen React components.
- Leveraged a **scrum methodology** to accelerate and sustain development that thoroughly delivers valuable features.
- Maintained a methodological organization of code through **self-written documentation** for open source development.

Dunya Flight Searcher | *Next.js, TailwindCSS, TypeScript*

October 2022

- Led the front-end development of Dunya's initial website within **24 hours** at **CodeRED Hackathon 2022**.
- Conceptualized a sleek and approachable front-end for a metasearch web application as my first ever React application.
- Designed a streamlined interface that reflected a personalized user experience for ecommerce.

StudyUP | *TypeScript*

September 2022

- Discord.js bot developed in **TypeScript** to promote and organize group study in student-run Discord servers.
- Developed to enable Discord users to create, delete, and update a server's scheduled events via native slash commands.
- Employed **Cron scheduling** to arrange recurring Discord server events throughout a semester.

Portfolio Website | *HTML, TailwindCSS*

August 2022

- Created using basic **HTML** and **TailwindCSS** with key UI/UX principles in mind.
- Wireframed design with an easily accessible, intuitive, and user-friendly layout.
- Fashioned with a **responsive** layout that's suitable for the best mobile and desktop experiences.

Multithreaded Parallel Fixed-length Code Decompressor (COSC 3360 Assignment) | *C++*

May 2022

- Decodes messages with a **semaphore** and **conditional variable** to prevent thread interference in shared memory.
- Demonstrates the use of **C++ POSIX threads** and advance proficiency of the language.

Discord Music Bot | *JavaScript, Node.js, Discord.js*

January 2022

- A Discord bot written in **JavaScript** and **Node.js** using the Discord API via Discord.js and the YouTube API v3.
- Enqueues song requests received either as a YouTube link or search query from the user.
- Search YouTube for the first available video to add to the queue, bypassing age restricted search results.
- Includes a fully functioning queue, as well as looping, skipping, and pausing commands.