

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

- Introduction to Computer Networks
COSC 4377
- Fundamentals of Software Design
COSC 4353
- Data Structures & Algorithms
COSC 3320

Experience

The University of Houston, Computer Science Department

August 2022

Academic Support Assistant

Houston, TX

- Aiding the course instructor in grading, proctoring, and preparing course materials for COSC 1430 and COSC 1336.
- Guiding students through the fundamental principles of structured procedural programming in C++.
- Hosting office hours for both one-on-one and group study over basic programs and algorithms in C++.

Projects

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

January 2023

- Outlined a professional UI/UX that connects passport holders with the travel restrictions for their next trip.
- Shaped to perform swift searches of visa restrictions through a data set built from the Passport Index API.
- Tailored a polished, informative, and intuitive design for the effortless use of the average international traveler.

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

October 2022

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

StudyUP | *TypeScript, Discord.js*

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.
- Implemented a MongoDB database of active users and events using the node.js Mongoose library.
- 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 on a single memory address.
- 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.

Technical Skills

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

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

Libraries & API: Discord.js, Mongoose, YouTube API v3, Duffel API

Honors and Awards

College of Natural Science and Mathematics Dean's List

Fall 2020

College of Natural Science and Mathematics Distinguished Scholars List

Spring 2021