



# TARIQ ACHOR ZYAD

Houston, TX, 77006

[tachorzy.com](http://tachorzy.com)

☎ +1 (804)-836-5346 ✉ [tachorzyad@gmail.com](mailto:tachorzyad@gmail.com)  [www.linkedin.com/in/tachorzy](https://www.linkedin.com/in/tachorzy)  [github.com/tachorzy](https://github.com/tachorzy)

## Education

### University of Houston

August 2020 – May 2024

*Bachelor of Science in Computer Science*

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.
- Utilized Dynamic Routes to arrange visa requirements for 199 nationalities from a Passport Index API data set.
- 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, Jest, 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