Tariq Achor Zyad

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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*

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**

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**

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**

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**

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**

Demonstrates the use of C++ POSIX threads and advance proficiency of the language.

Discord Music Bot | *JavaScript, Node.js, Discord.js* — **January 2022**

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**