TARIQ ACHOR ZYAD

Houston, TX, 77006

tachorzy.com

📞 +1 (804)-836-5346 ✉ tachorzyad@gmail.com 💼 www.linkedin.com/in/tachorzy 🐙 github.com/tachorzy

Education

University of Houston	**August 2020 – Fall 2024**
Bachelor of Science in Computer Science	*3.44 GPA*

Experience

The University of Houston, Computer Science Department	**August 2022 – Present**
Academic Support Assistant	*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.
- Proctor exams for **250 students** covering key algorithmic paradigms in *Algorithms and Data Structures* (COSC 3320).

Projects

CougarAI Website | *Next.js, TypeScript, TailwindCSS*	**May 2023**

- Wireframed and developed the first official website for the campus's premier club for Artificial Intelligence.
- Coordinated with the team to form a pragmatic sprint backlog that reflected our active communication.
- Refined the website's design to best represent the club's community of **500** users to the general public.

Portfolio Website | *Next.js, TypeScript, TailwindCSS*	**April 2023**

- Composed a **responsive** layout that's equally inviting for both mobile and desktop experiences.
- Utilized **abstraction** through functional components to deliver reusable, coherent and concise code.
- Modernized my minimalist user interface (UI) with a heavy emphasis on **hierarchy** and **active whitespace**.

Quotr - Fuel Quotes | *Next.js, JavaScript, TailwindCSS, NextAuth.js, Jest, MongoDB*	**February 2023**

- Leveraged a **scrum methodology** to accelerate and sustain development that thoroughly delivers valuable features.
- Designed comprehensive **unit tests** that instilled thoughtful development for a streamlined user experience.
- Authenticated user registration, logins, and credentials using NextAuth catch-all routing with a MongoDB adapter.

Gibraltr Visa Searcher | *Next.js, JavaScript, TailwindCSS*	**January 2023**

- Outlined a professional user experience (UX) that connects passport holders with **over 38,000** travel restrictions.
- Integrated dynamic routes to arrange visa requirements for **199 nationalities** from a Passport Index API data set.
- Tailored a informative and intuitive UI for multiple pages comprised of over a dozen React components.
- Maintained a methodological organization of code through **self-written documentation** for open source development.

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

Multithreaded Parallel Fixed-length Code Decompressor | *C++*	**May 2022**

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

Leadership

CougarCS	**June 2023 – Present**
Director of Tutoring	*Houston, TX*

- Leading a tutoring community of **1,200+** users within the campus's longest serving Computer Science Organization.
- Administering the growth of an inclusive and open-space for free peer-to-peer assistance and professional development.

Technical Skills

Languages: TypeScript, JavaScript, Python, C++, Java, HTML/CSS, C#
Frameworks: Next.js, Jest, Vue.js, MongoDB
Libraries: TailwindCSS, HeadlessUI, MaterialUI, ChakraUI, React.js, Node.js, NextAuth.js, NumPy, OpenCV
Developer & Design Tools: Git, Figma, VSCode, Photoshop, Inkscape