Maddie Adair

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Education

University of Houston **August 2020 – May 2025**
Bachelor of Science in Computer Science *Houston, TX*

- Minors in Mathematics and Chinese Studies
- Cumulative GPA: 3.84
- Relevant Coursework: Software Design, Data Science and Machine Learning, Computer Networks, Algorithms and Data Structures, Operating Systems, Data Science, Database Systems

Experience

University of Houston, Department of Computer Science **August 2023 – Present**
Academic Support Assistant (Undergraduate Tutor) *Houston, TX*

- Conduct individual and group tutoring sessions for students in classes ranging from Introductory Python and C++ to Data Structures and Programming (Python/C++).
- Review classroom or curricula topics and assignments to help improve study strategies and approaches to answering test questions.

Projects

Musero | *JavaScript, Node.js, TailwindCSS, MySQL*, Microsoft Azure **January 2024 – May 2024**

- Led a team of five in the comprehensive development of a full-stack museum web application for The Museum of Fine Arts Houston throughout the semester.
- Composed a seamless and dynamic user interface using ReactJS and TailwindCSS.
- Employed Node.js to establish a scalable server-side environment in conjunction with a MySQL database to manage museum employees and customers.

Fuelr | *JavaScript, React, TailwindCSS, Express.js, Jest, MySQL, Microsoft Azure* **January 2024 – May 2024**

- Built a full stack web application to predict fuel rates based on user information and fuel history.
- Designed a responsive and functional user interface using JavaScript, React, and TailwindCSS.
- Implemented a secure and efficient backend API to interact with a Microsoft Azure database for MySQL and establish a user authentication and session management system with unit tests perfomed with Jest.

MaoMiu | *JavaScript, TailwindCSS, Python, Next.js, Django, PostgreSQL* **August 2023 – Present**

- Developed a web application to aid in the practicing of Chinese writing skills and character recognition.
- Used Figma to design the front-end appearance and to experiment with UI features and Adobe Illustrator to create illustrations.
- Leveraged Django's ORM API to interact with a PostgreSQL database to generate and store character and word phonetic, stroke order, and definition data.

Technical Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, TypeScript, Java, SQL, R, C#, Swift
Developer Tools: Git, VS Code, Linux, Figma, Microsoft Azure
Technologies/Frameworks: React, Next.js, Node.js, Express.js, Django, Flask, MySQL, MongoDB, PostgreSQL, TailwindCSS, Xcode, PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib, Jest, Photoshop, Illustrator

Extracurriculars

CougarCS | *Member* **Spring 2023 – Present**

- Participate in technical workshops, weekly professional meetings, and corporate mixers.
- Promote the fields of science and technology to women and other underrepresented groups within the community.

CALCO (Chinese Language and Culture Organization) | *Member* **Fall 2022 – Present**

- Assist in the promotion of the Chinese culture, history, and language through the participation and advertising of cultural immersion activities and workshops.