

REEM ALKHALILY

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Education

University of Houston

Bachelor of Science in Computer Science, Minor in Mathematics,

August 2021 – May 2025

Houston, TX | GPA: 3.71

Technical Skills

Languages: C++, Python, C, Java, R, Javascript, React, HTML, CSS, SQL

Software/Platform: VS Code, Postman, Jupyter Notebook, PSQL, Github, Linux, Unity, R-Studio, Node.js, Express

Projects

Piplup Travel | *HTML, Tailwind CSS, React*

February 2024

- Initiated creation of Piplup Travel, a web app using React, HTML, and Tailwind CSS, integrating with a global API offering 400+ airlines.
- Integrated API to enable users to find affordable flights from global airlines, enhancing the travel booking experience.
- Orchestrated API response processing for real-time flight info, bolstering trust and reliability in the application.

Financial Literacy Game | *Python, HTML, Tailwind CSS*

October 2023

- Led a team of 4, coordinating communication and problem-solving to deliver an integrated project combining a game and website using HTML and Tailwind CSS.
- Managed coding, content creation, and testing, ensuring project quality and cohesion.
- Developed an interactive financial literacy game with Ren'Py, merging education and gamification for effective user engagement and education.

Multi-thread Huffman Server-Client | *C++, C*

March 2023

- Developed efficient code using Huffman tree algorithm and multi-threading for client-server communication and data decoding in Linux.
- Streamlined decoding process with multi-threading, resulting in 57% concurrency improvement and 31% processing time reduction.
- Implemented client-side input for sending binary numbers to server, enhancing data transmission and processing efficiency for deciphering messages.

Experience

University of Houston

January 2024 – Present

Teaching Assistant

Houston, TX

- Conduct weekly lab sessions to reinforce programming concepts and assist students with assignments.
- Successfully balance teaching assistant responsibilities with coursework and personal commitments, dedicating 5 hours per week to support 120 undergraduate students in an introduction to programming course.
- Offer personalized assistance to students during office hours, clarifying doubts and debugging code.

Leadership

Computer Science Girls

October 2023 - Present

Mentorship Chair

Houston, TX

- Facilitate a mentorship program for 44+ participants within the Computer Science Girls Club.
- Organize a highly-attended semester kick-off social event, fostering a sense of community among mentors and mentees.
- Demonstrate effective leadership by consistently addressing mentor inquiries and providing timely assistance.
- Oversaw program logistics and served as a point of contact and advisor for all participants.

Computer Science Girls

August 2023 - Present

Professional Development Committee Member

Houston, TX

- Collaborate with a diverse team to organize and execute 2 to 3 technical and speaking workshops per month, aiding over 60 computer science students in acquiring foundational skills for successful careers in software engineering.
- Construct workshop content, including hands-on coding exercises and public speaking modules, tailored to meet the needs of 76+ participants with varying skill levels.
- Coordinate with industry professionals and faculty members to secure guest speakers and experts, enriching the workshop experience with real-world insights and trends for 76+ students per meeting.

UH Cougarettes

February 2023 – April 2023

SHE Codes Instructor

Houston, TX

- Designed and delivered engaging Python coding workshops for 20 elementary school-aged girls, fostering their interest and enthusiasm for computer science.
- Adapted instructional strategies to cater to diverse learning styles, ensuring that each student could grasp the concepts effectively and polish their programming skills.
- Organized coding showcases and events, allowing students to showcase their projects to their peers, parents, and school community, elevating their accomplishments and celebrating their achievements.