

Hatem Saleh

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EDUCATION

University of Houston

August 2021 – Dec 2023

Bachelor's in computer science, Minor in Mathematics (GPA: 3.65/4.00)

Houston, TX

Honors: University of Houston Transfer Excellence Scholarship 2022 and 2023

Relevant Courses: Data Structures, Computer Organization & Architecture, Operating Systems, Digital Image Processing, Fundamentals of Medical Imaging, Data Science and Stats Learning, Artificial Intelligence, Algorithms and Data Structures, Intro to Comp Networks, Database Systems, Software Engineering

SKILLS

Technical:

C++, Python, C#, SQL, PostgreSQL, HTML, CSS, Java Script, Algorithms, Coding, Debugging, GitHub, Git, Object Oriented Programming (OOP), Azure

Languages: Bilingual in English and Arabic

EXPERIENCE / PROJECTS

2048 Puzzle Solver, Data Structure(<https://github.com/HatemSaleh/2048-buzzle-solver/tree/main>) **spring 2022**

- Built a grid for the game 2048 where the elements in it could slide left, up, right, and down.
- Utilized the stack data structure to shift the elements in the grid.
- Implemented Depth-First search in C++ to develop an algorithm that finds the shortest solution for the game 2048.

CT Scan Simulation, Medical Imaging

fall 2022

- Produced a functional CT scan simulation using Python, simulating image slicing in horizontal, vertical, and diagonal orientations, coupled with comprehensive image reconstruction on a generated "virtual phantom".
- Collaborated as part of a 4-member team of undergraduates at the University of Houston, spearheading the implementation and refinement of the system.

Multiprocessing and Multithreading, Operating Systems

fall 2022

- Utilized threads and processes to perform multiple computations concurrently.
- Applied Semaphores to control the order in which the threads are displayed.

Library Database Website, Database Systems

spring 2023

- Developed a Library database web application using ASP.NET MVC framework, hosted on Microsoft Azure.
- Designed a user-friendly front-end interface using HTML, CSS, and JavaScript to create a visually appealing platform and easy user navigation.
- Built the back-end functionality using C# and PostgreSQL to manage user authentication, and items availability in the database.
- Collaborated as a part of 5-member team of undergraduates at the University of Houston splitting the tasks and leveraging the MVC framework.

Personal Website, Personal Project (<https://github.com/HatemSaleh/personal-portfolio>)

fall 2023

- Developed a responsive web page that adapts to multiple screens.
- Designed a visually appealing layout leveraging HTML, CSS, and JavaScript to create a simple user-friendly interface.