

Andres Flores

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Summary: Computer Science senior at the University of Houston passionate about helping people with and without code. I want to dive into the world of development and networking. I am seeking an IT/Software Engineering Internship/Co-op position.

EDUCATION

University of Houston, Houston

B.S. in Computer Science, Minor: Mathematics - GPA 3.7

December 2023

Dean's List Honor: Fall 2020, Fall 2021, Spring 2022, Fall 2022

Relevant Coursework: Algorithms, Operating Systems, Computer Org & Architecture, Programming & Data Structures, Fundamentals of Software Engineering, Software Design, Intro to Computer Networks

SKILLS

Technical: (Proficient) Python, Java, C/C++ (Familiar) C#, HTML, CSS, JavaScript, PHP, ASP.NET Core MVC, Azure SQL, Xunit, React, Bootstrap, computing hardware installation/troubleshooting

Software & Operating Systems: UNIX, UNIX Shell, Linux, macOS, Windows, PowerShell, Microsoft Office Suite, VMware, GIT, GitHub, Visual Studio, Visual Studio Code.

Language: Fluent in English, conversational and working proficiency in Spanish.

PROJECTS

qEnergy - ASP.NET Core Web Application Group Project

SPRING 2023

- Web application for a "company" to request fuel quotes to purchase from "qEnergy."
- The app will predict the rate of the fuel based on customer history, location, company profit margin, and amount of gallons requested.
- Login/Register forms and Quote request forms with CRUD functionalities utilizing Azure SQL with hosting on Azure.
- **Technologies used:** C#, ASP.NET Core MVC, Xunit, SQL Server, Azure SQL, HTML, CSS, jQuery

Windows 10 Workstation with CentOS, Managed by Hyper-V

SPRING 2023

- Took lead in configuring/installing CentOS on a Windows 10 machine with Hyper-V.
- Faculty can now connect to the CentOS VM via SSH regardless if another user is using Windows.
- **Technologies used:** Windows, CentOS, TCP/IP, Hyper-V

Server/Client String Decompression Program with Sockets

SPRING 2022

- Server and client programs that send and receive data using sockets.
- Client program will receive a compressed message and create child threads that create a socket to send bits to the Server.
- Server will receive sockets that give the bits and create child threads to asynchronously handle requests from the client. Server will send back a letter representing the bits received.
- The client program receives letters and creates the decompressed message.
- **Technologies used:** C++, Sockets, POSIX threads

Java Maze Solver with GUI

SPRING 2020

- Java program that visualizes solving mazes with Depth First Searching, Breadth First Searching, and A* Searching.
- Able to generate small (10x10), medium (20x20), large (30x30), and custom mazes. Able to load mazes and generate new mazes of the same size.
- **Technologies used:** Java, Swift, AWT

WORK EXPERIENCE

U of H - Physics Department/NSM IT, Houston - Physics IT/NSM IT

SEPTEMBER 2022 - CURRENT

- Provided IT support in Windows/Ubuntu/macOS for over 30 physics and NSM faculty and staff in a timely manner.
- Configured software and installed hardware to effectively accommodate users' desktop and laptop needs.
- Troubleshooting/debugging in Windows/Ubuntu/macOS environments.