

# Lupita Valle

(832)433-2506 | [lvalle@cougarnet.uh.edu](mailto:lvalle@cougarnet.uh.edu) | <https://www.linkedin.com/in/lupita-valle/> | <https://github.com/lvalle-t>

## OBJECTIVE

As a computer scientist, I am interested in the role of a Software Engineer where I can contribute my analytical skills and further my knowledge in a progressive company.

## EDUCATION

University Of Houston December 2023  
**Bachelor of Science in Computer Science** Minor in Mathematics GPA: 3.37  
**Relevant Coursework:** Data Structures, Computer Architecture, Operating Systems, Algorithms and Data Structures, Introduction to Automata and Computability, Database Systems, Digital Image Processing, Intro to Computer Networks, Software Design

**Associate Degree in Science**, Houston Community College, Houston, Tx May 2019

## SKILLS

**Programming Languages:** Python, C++, R, Java, Microsoft Suite, HTML, CSS, JavaScript

**Tools:** VS Code, Pycharm, Visual Studio, RStudio

**Bilingual:** English and Spanish

## PROJECTS

**Portfolio Website,** Jan 2023 – Present

- Wireframed design with an easily accessible, intuitive, and user-friendly layout
- Created a responsive layout suited for quality mobile and desktop experiences

**Fuel Rate Website,** Software Design Jan 2023 - May 2023

- Built mock designs and wireframes for landing page along with a user interface with modern JavaScript frameworks
- Created accessible, responsive, and functional user interfaces to allow clients to check the rate on fuel based on location, date and quantity ordered

**K-Nearest Neighbors and Support Vector Machine,** Data Science and Statistical Learning

- Collaborated with group members to analyze Medical Expenditure Panel Survey with Rstudio to determine if there is a finite correlation between developing kidney or eye problems and how the subject learned to treat their diabetes

**Server and Client C++ Implementation,** Operating Systems July 2022

- Implemented sockets between a client and a server using POSIX threads in an Operating Systems project
- Assembled a server-client model to convert information message from server to binary
- Converted binary code into characters to form decoded message

**Multithreading,** Operating Systems June 2022

- Utilized C++ multithreading to asynchronously convert the binary message into individual characters
- Utilized C++ mutex as a synchronization method involving memory of only one argument

## WORK EXPERIENCE

**Computer Science Instructor,** She Codes Outreach Program, Houston, TX Fall 2021 and Spring 2023

- Led the Introduction to Python course to 30 middle school students
- Analyzed and debugged code written by students and provided feedback for improvement
- Assisted in data collection to analyze students' mastery of Python

## ACTIVITIES

**Co-Founder and Marketing Director,** Code Coogs Club Fall 2021 - Spring 2022

- Coordinated with the President and Vice-Presidents to produce effective strategies to increase club membership
- Managed administrative logistics of event planning, including event booking and event promotions
- Analyzed data to evaluate the success of the marketing efforts and come up with new ideas to improve brand marketing and exposure

## CERTIFICATIONS

JPMorgan Software Engineering Virtual Experience Program on Forage June 2023

- Used Perspective data visualization software and Python to monitor stock price trends and create trading strategies.