Nancy Hoang

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Education

University of Virginia, Charlottesville, VA   **August 2019 - May 2023**
B.A. in Computer Science
GPA: 3.789

Related Coursework

Program and Data Representation, Software Development Methods, Introduction to Data Science with R, and Introduction to Programming

Relevant Skills

- ❖ Proficient in C++, Java, Python, and R.
- ❖ Confident in written and verbal communication.
- ❖ Excels at working in an organized, productive, and timely manner.
- ❖ Team-oriented and purpose driven.

Projects

Huffman Encoder and Decoder (C++)
- ❖ Developed a program that reads input from a file containing ASCII characters and decodes or encodes the text utilizing the Huffman coding algorithm for optimal lossless data compression.

Sliding 8 Puzzle Solver (C++)
- ❖ Designed a program that when given an input board (3x3) will find the minimum number of moves required to reach the goal state for puzzle or notify that it is impossible to solve.
- ❖ Implemented breadth-first search algorithm to find the minimum number of moves.

UVA Frogger Inspired Game (Python)
- ❖ Engaged in pair programming with another student to communicate and deliver a 2D one player game inspired by Frogger but with a UVA twist implemented using Python and PyGame.
- ❖ Designed aspects of the game such as implementing character sprites to create characters and obstacles, managing interactions between objects, and creating start/end game screens in Canva.

Activities

Women in Computing Sciences - Active Member   **January 2020 - Present**
- ❖ Engaged as an active member in WiCS meetings and career development events.
- ❖ Actively participating in the organization's peer mentor-mentee program.

Asian Student Union - Marketing Committee Member   **August 2019 - January 2020**
- ❖ Responsible for designing graphic designs and spreading flyers to promote 3 ASU events.
- ❖ Collaborated on a committee of 6 members to brainstorm innovative ways to promote awareness on Asian American culture and history through university events.