Johnathan Bressette

Address

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#Skills

Languages GUI Libraries	Source Control	Data Management
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C Python SFML(C++) Git MySQL

C++ Java OpenGL(C) Github Pandas (Python)

#Projects

2D Color Puzzle (https://github.com/Bressette/2D-Color-Puzzle)

L2D puzzle game with a goal of creating a sorted gradient of colors from a scrambled grid by moving columns and rows. LMade using C and 2D graphics in OpenGL.

LColors are interpolated from randomly selected base colors at each corner to generate color grid.

LUser presses a key to scramble a gradient and clicks on an initial square and then they can use arrow keys to move the grid.

Traveling Salesman Problem Solver (https://github.com/Bressette/SFML-TSP)

Lerogram that displays a 5-node complete graph and computes the minimum cost Hamiltonian circuit.

LMade using C++ and graphics in SFML.

Luses dynamic programming to solve the traveling salesman problem in O $(2^n * n^2)$.

Crash Database (https://github.com/Bressette/crashDatabaseProject)

LCreation of MySQL database that holds data from crashes in Vermont in 2016.

LaDatabase is used to generate statistics using SQL queries on the database.

LData from a CSV file is parsed and sanitized using the Pandas library in Python, generating a CSV for each table.

LData is imported into the database using SQL gueries

Sorting Algorithms (https://github.com/Bressette/sortingAlgorithms)

Limplemented common sorting algorithms from scratch in C.

LaSorts integer arrays using bubble sort, quick sort, merge sort, insertion sort, heap sort, and insertion sort

Airline Priority List (https://github.com/Bressette/airlinePriorityQueue)

LCreates a sorted priority list of passengers on a flight and prints the priority list

L,Reads from text file using C and computes a priority number based on passenger data included in the text file

LPassengers are sorted into a priority queue using heap sort based on each passenger's priority number.

Console Calculator (https://github.com/Bressette/stackCalculator)

LSimple single digit calculator written in C that takes in user input from the console and computes the result

LiReads the character passed in and stores the value in a stack, computing results when a valid operator is entered

#Education

Florida Polytechnic University / B.S. in Computer Science (3.92 GPA)

August 2018 – May 2021: Lakeland, FL