## **Johnathan Bressette**

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# #Skills

Languages	<b>GUI Libraries</b>	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 to create 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 a color grid

LaThe user presses a key to scramble a gradient, clicks on an initial square, then they can use arrow keys to move the grid

## Traveling Salesman Problem Solver (<a href="https://github.com/Bressette/SFML-TSP">https://github.com/Bressette/SFML-TSP</a>)

La Program that displays a 5-node complete graph and computes the minimum cost Hamiltonian circuit La Made using C++ and graphics in SFML

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

#### Crash Database (<a href="https://github.com/Bressette/crashDatabaseProject">https://github.com/Bressette/crashDatabaseProject</a>)

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

L,Database 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 queries

#### **Sorting Algorithms** (<a href="https://github.com/Bressette/sortingAlgorithms">https://github.com/Bressette/sortingAlgorithms</a>)

Umplemented common sorting algorithms from scratch in C

La Sorts 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

Legals from text file using C and computes a priority number based on passenger data included in the text file Legals are sorted into a priority queue using heap sort based on each passenger's priority number

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

LySimple single-digit calculator written in C that takes in user input from the console and computes the result LyReads the character passed in and stores the value in a stack, computing results if the character is an operator

# #Education

Florida Polytechnic University / B.S. in Computer Science (3.94 GPA)

August 2018 – May 2021: Lakeland, FL