Levon Kalantarian

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lkalant.github.io

EDUCATION

University of Texas at Dallas
M.S. in Computer Science, 2023
B.S. in Neuroscience and Biology, 2010
Current coursework:
Database Design
Completed coursework:
Algorithm Analysis and Data Structures, Linear Algebra,
Computer Architecture, Probability and Statistics in CS/SE

SKILLS

Java, C++, HTML, UNIX shell scripting (bash), C, Python, MIPS assembly, Some exposure to C#
Various tools/IDEs used: VS Code, Visual Studio, IntelliJ, Eclipse, XCode, WordPress, MySQL Workbench

PROJECTS

Word Puzzle Solver   Fall 2020
Academic Project   *Java*
– Wrote a program to create different sized 2D puzzles of random characters and quickly solve them
– A dictionary .txt file is imported into a hash table and used via linear probing to check for all occurrences of words
– The use of hash table lookups potentially results runtimes faster by orders of magnitude, especially for larger grids
– The program includes a regular and a more enhanced algorithm, showing the runtimes of each in milliseconds for comparison

Minimum Spanning Tree   Fall 2020
Academic Project   *Java*
– A program that reads a .csv file containing a graph of interconnected cities and their distances, and prints the connections needed for the least road distance to connect all the cities
– The input file can be modified or expanded while in adjacency list format to process varying amounts of data
– Demonstrates the use of a hash table, a disjoint set, and Kruskal's algorithm to generate a minimum spanning tree of all the nodes

EXPERIENCE

iCode LLC, Frisco, Texas   Aug 2019 - Mar 2020
CS/Programming Instructor   *part time*
– Gave lessons including Python and Raspberry Pi to students from grades 3-12
– Taught coding concepts including variables, code blocks, conditional statements, loops, methods, and libraries
– Helped students to write and debug their own code in Python
– Covered other topics including IDEs, operating systems, memory, and numbering systems