Levon Kalantarian

levon.kalantarian@utdallas.edu | 469-235-4781 | Plano, TX | /lkalant | /in/levonkalantarian/

EDUCATION

The University of Texas at Dallas	Richardson, TX
M.S. in Computer Science	Dec 2022
B.S. in Neuroscience and Biology	Aug 2010

Coursework

Current: Operating Systems Concepts

Completed: Web Programming Languages, Database Design, Algorithm Analysis and Data Structures, Linear Algebra, Computer Architecture, Probability & Stats in CS/SE, Discrete Math for Computing, Physics for Bioscience, Statistics for Life Sciences

SKILLS

Languages: Java, HTML5/CSS, C, C++, Python, JavaScript, SQL, MIPS, UNIX shell scripting (bash)

Tools: Git, Visual Studio, VS Code, IntelliJ, Eclipse, XCode, MySQL Workbench, Linux, VirtualBox, MS Excel, PowerPoint, Word

PROJECTS

Word Puzzle Solver (Java)   Sept 2020 – Oct 2020
- Wrote a program to create and quickly solve different sized 2D puzzles of random characters.
- 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 decreases runtimes by orders of magnitude, especially for larger grids.
- Includes a regular and a more enhanced algorithm, showing the runtimes of each in milliseconds for comparison.

Minimum Spanning Tree (Java)   Oct 2020 – Nov 2020
- A program that reads a .csv file containing a graph of interconnected cities and their distances, and prints the connections needed for the least 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, disjoint set, and Kruskal's algorithm to generate a minimum spanning tree of all the nodes.

EXPERIENCE

CS/Programming Instructor (iCode LLC, Frisco, TX)   Aug 2019 – Mar 2020
- Taught classes including Python and Raspberry Pi for students from K-12.
- Used Java and Python to teach foundational coding concepts.
- Helped students write and debug their own code in Python.
- Gave lessons on topics including IDEs, operating systems, CPUs, memory, and numbering systems.

Liability Claims Examiner (GEICO, Richardson, TX)   Dec 2016 – May 2017
- Handled auto insurance claims involving uncertainties, liability disputes, or potential fraud.
- Conducted recorded interviews with policyholders, witnesses, and others involved in accidents.
- Gathered and analyzed various accident details and information from different sources before making liability decisions.

Research Technician II (UT Southwestern Medical Center, Dallas, TX)   Aug 2011 – Nov 2016
- Sequenced and analyzed DNA samples in sequencing core for other UTSW labs.
- Explained analysis to customers, helped troubleshoot and advised regarding sample preparation techniques and/or modifications for optimal results.
- Helped with upkeep and 1st level troubleshooting of sequencing machines, computers, and other lab instruments.
- Created a calculator in MS Excel to quickly determine reagent proportions for varying amounts, further streamlining solution preparation.
- Suggested new features/changes and provided testing/feedback for improvement of sequencing core web app.