Levon Kalantarian

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EDUCATION

University of Texas at Dallas
  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, HTML, CSS, C, C++, Python, JavaScript, SQL, MIPS, UNIX shell scripting (bash)
Tools: Git, Visual Studio, VS Code, IntelliJ, Eclipse, XCode, MySQL Workbench, 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.