

Levon Kalantarian

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EDUCATION

University of Texas at Dallas, Erik Jonsson School of Engineering and Computer Science

M.S., Computer Science, 2023

University of Texas at Dallas, School of Natural Sciences and Mathematics

B.S., double major in Neuroscience and Biology, 2010

Current coursework:

Web Programming Languages

Completed coursework:

Database Design, Algorithm Analysis and Data Structures, Linear Algebra, Computer Architecture, Probability and Statistics in CS/SE, Discrete Math 1 & 2, Calculus 1 & 2, Physics for Bioscience 1 & 2, Statistics for Life Sciences, Computer Science 1 & 2 (C++)

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 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 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

CS/Programming Instructor

Aug 2019 - Mar 2020

iCode LLC

Frisco, TX

- Taught classes including Python and Raspberry Pi for students from grades 3-12
- Helped students to write and debug their own code in Python
- Gave lessons on foundational coding concepts and other topics including IDEs, operating systems, memory, and numbering systems

Liability Claims Representative

Dec 2016 – May 2017

GEICO

Richardson, TX

- Handled auto insurance claims involving liability disputes
- Gathered and analyzed various accident details and information, before making liability decisions
- Interacted with different policyholders, insurance companies, law offices, field adjusters, and auto repair shops

Research Technician II

Aug 2011 – Nov 2016

UT Southwestern Medical Center

Dallas, TX

- Worked in DNA sequencing core on campus, processing samples for other UTSW labs
- Helped customers from other labs with sequencing results analysis, troubleshooting, account maintenance, and billing
- Worked with, helped maintain, and did 1st level troubleshooting of sequencing machines/computers and other lab equipment
- Suggested new features/changes and provided testing/feedback to the department's web app developer for the sequencing core app