

# Levon Kalantarian

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## EDUCATION

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### University of Texas at Dallas

*M.S. in Computer Science, 2023 GPA: 3.67*

*B.S. in Neuroscience and Biology (double major), 2010*

#### Current coursework:

Graduate Database Design

Web Development (online self-paced, including JavaScript, CSS, SQL, MongoDB)

Java (online self-paced, including working with SQL)

#### Completed coursework:

Graduate 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

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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

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### Word Puzzle Solver

Fall 2020

*Academic Project*

**Java**

- Built 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**

- Wrote 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

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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

**GEICO**, Richardson, Texas

Dec 2016 – May 2017

*Liability Claims Representative*

*full time*

- Worked in a call center as an adjuster, handling auto insurance claims
- 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

**UT Southwestern Medical Center**, Dallas, Texas

Aug 2011 – Nov 2016

*Research Technician II*

*full time*

- Worked in sequencing core on campus, processing DNA samples for other UTSW labs
- Helped customers from other labs with sequencing results analysis, troubleshooting, accounts, and billing.
- Worked with, helped maintain, and did 1<sup>st</sup> 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 being used