

# Levon Kalantarian

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## EDUCATION

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### The University of Texas at Dallas

M.S. in Computer Science

B.S. in Neuroscience and Biology

Richardson, TX

Dec 2022 (Expected)

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

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

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

## PROJECTS

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### 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

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### Technical Lead (iCode LLC, Frisco, TX)

Aug 2019 – Mar 2020

- Taught computer science and programming lessons to students between grades K-12.
- Used languages including Scratch, Python, and Java to teach foundational coding concepts.
- Presented lectures and guided students through assignments and projects in labs

### Liability Claims Examiner (GEICO, Richardson, TX)

Dec 2016 – May 2017

- Worked with auto insurance claims involving liability uncertainties.
- Gathered and analyzed 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 UT Southwestern labs.
- Explained analysis to customers, helped troubleshoot, and advised regarding sample preparation techniques and/or modifications for obtaining optimal sequencing results.
- Helped with upkeep and 1<sup>st</sup> level troubleshooting of sequencing machines, computers, and other lab instruments.
- Suggested new features/changes and provided testing/feedback for improvement of the sequencing core web app.