

Robert Khalulyan

github.com/rkhalulyan/profile

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EDUCATION

B.S. Computer Science

Expected May 2024

California State University, Northridge

- GPA: 3.8,
- Awarded for Dean's List Fall 2021, Spring 2022, and Fall 2022
- Active Member in MetaHacks Club
- Apart of CSUN's Lambda Beta Chapter of IEEE - Eta Kappa Nuc College of Engineering & Computer Science and Tau Beta Pi Engineering Honors Society

A.S. Computer Science

August 2019 to May 2021

Los Angeles Valley College

- GPA: 3.7
- Dean's Honors List in Computer Science
- Scholarship awards for academic achievements

Objective

As a passionate and driven software developer, my goal is to secure an internship position in a company where I can put my programming skills and technical knowledge to work. I am excited to learn from experienced developers, work collaboratively on challenging software development projects, and contribute to the company's success. With a strong desire to continuously learn and grow, I aim to use this internship opportunity to enhance my skills, develop new expertise, and establish a strong foundation for a successful career in software development.

Skills

- Proficient in Java and C++
- Experienced with Python, Java Flask, HTML/CSS, and the following libraries and frameworks:
 - Spring Framework (Java)
 - Boost C++ Libraries (C++)
- Strong knowledge of data structures and algorithms, including:
 - Sorting and searching algorithms
 - Trees, graphs, tries, and hash tables
- Expertise in Object-Oriented Programming (OOP) concepts, including:
 - Inheritance, polymorphism, encapsulation, and abstraction
 - Design patterns such as Singleton and Factory Method
- Experienced with version control systems, i.e Git
- Familiar with different operating systems, including Windows, Linux, and macOS

Work Experience

Geography Department Student Assistant

August 2022 - Present

- Provided assistance to students, answering questions about the geography program and helping with coursework, resulting in many students achieving academic success.
- Provided administrative support to the department, including answering phone calls and emails, scheduling appointments, and organizing events
- Conducted research projects under the supervision of faculty members, including data collection, analysis, and report writing

Centinella Feed & Pet Supply

May 2019 - November 2019

- Provided exceptional customer service by greeting customers, answering questions, and recommending products to meet their needs, resulting in a noticeable increase in customer satisfaction.
- Operated the cash register and handled transactions accurately, consistently achieving a balanced cash drawer at the end of each shift.
- Maintained a clean and organized store environment, including stocking shelves, rotating inventory, and performing daily cleaning tasks.
- Assisted with marketing and promotional initiatives, including setting up displays, creating signage, and promoting sales and events, resulting in a 80% increase in sales during promotional periods.

99cents Only Store

May 2017 - August 2017

- Operated the cash register and processed transactions accurately, consistently achieving a balanced cash drawer at the end of each shift
- Assisted with inventory management, including receiving and stocking products, conducting physical inventory counts, and tracking product expiration dates

Projects

(All projects are in GitHub [/profile/](#) repository)

- **Tower Of Hanoi**
 - The Tower of Hanoi is a mathematical puzzle involving three rods and a stack of differently sized disks. The objective is to move the entire stack to another rod while following three rules: only one disk can be moved at a time, no disk can be placed on top of a smaller disk, and each move involves taking the upper disk from one stack and placing it on top of another stack or on an empty rod.
 - This project uses recursion and the stack data structure to help accomplish the goal of the puzzle.
- **Graphs**
 - In this project I implemented DFS and BFS search algorithms on a graph.
 - Dijkstra's Shortest Path Algorithm
 - Implemented a Cycle Detector class for Kruskal's Algorithm
 - Display's the "cost" of the shortest path
- **Binary Search Tree**
 - Recursively performs BFS and DFS searches on the tree
 - Returns the height of the tree
 - Performs in-order, post-order, pre-order tree traversals
 - Calculates the balance factor at each node
 - Inserts and deletes nodes in a tree then uses AVL rotation rules to balance the tree
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- **Linked Lists**
 - Part 1
 - Simple Linked List Program that has the following methods:
 - add(Object x), appends any given element onto the linked list
 - getSize(), returns the size of the linked list (int)
 - printLinkedList(), prints the size of the linked list
 - isContained(Object x), Returns true if object is in linked list, false if otherwise
 - appendIfNotContained(Object x), appends object if not contained in linked list
 - removeIfContained(Object x), removes object if contained in linked list
 - reverse(), reverses linked list
 - getIntersection(Node I1, Node I2), Returns a linked list of intersecting objects
 - Part 2
 - Uses linked lists to create, store, and change polynomials created by the user
 - User can:
 - Input a polynomial
 - Add 2 polynomials together
 - Subtract 2 polynomials together
 - Multiply 2 polynomials together
 - Evaluate any given polynomial
 - Print any given polynomial
- **Store Simulation**
 - Uses queues (+ priority queue) to simulate a supermarket that can:
 - Track when a new customer enters the store
 - Track which line each customer is in and how long it takes for them to "process"
 - Put customers in the line with lowest amount of "customers"