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*

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*

Associations

- *Lambda Beta Chapter of IEEE - Eta Kappa Nu Honor Society (IEEE-HKN)*
- *Tau Beta Pi Engineering Honors Society*

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*
  -
- ***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, l1, Node l2), 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"*