

# Amrit Kanoi

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## EDUCATION

### VIT UNIVERSITY

BTECH IN COMPUTER SCIENCE  
SPEC. IN INFORMATION SECURITY  
July 2018 - Present | Vellore

- Branch Rank - 8 | 2 times Merit Awardee for Academic Excellence
- CGPA: 9.14

## SKILLS

- C, C++
- Data Structures and Algorithms
- SQL
- Git

## COURSEWORK

Object Oriented Programming  
Operating Systems  
Database Management System  
Networks and Communications  
Cryptography Fundamentals

## LINKS

Github:// [amritk49](https://github.com/amritk49)  
LeetCode:// [amritk49](https://leetcode.com/amritk49/)  
AtCoder:// [amritk49](https://atcoder.jp/users/amritk49)  
HackerEarth:// [amritk49](https://www.hackerearth.com/@amritk49)  
HackerRank:// [amritk49](https://www.hackerrank.com/amritk49)  
GeeksForGeeks:// [kingluffy17](https://www.geeksforgeeks.org/authors/kingluffy17)  
SPOJ:// [kingluffy](https://www.spoj.com/problems/kingluffy)

## ACHIEVEMENTS

- Rank 261/5000+ in **Hack the Interview IV** | Asia Pacific Region
- Rank 1 in **CodeManthan** 2020, Won a cash prize of 10K
- Rank 2 in **Codesule** 2020, conducted by Nagarao Consultancy
- Rank 2 in **CodeTerror** 2020, conducted by Director of Student's Welfare
- Rank 2 in **CrackJack & ThinkBeforeCode** at GRAVITAS 2020
- Rank 3 in **CodeOlympia** 2020, National Level Symposium by IETE-VIT
- Rank 11 in **CodeJuring** conducted by GeeksForGeeks during Geek Week Festival, 2020

## EXPERIENCE

### GEEKSFORGEEKS | TECHNICAL CONTENT WRITER

November 2020 - Present

- Responsible for writing new articles on C++ and DSA.
- Improved existing articles and proposed better algorithms for existing code.
- Debugged codes and assisted students.
- Framing coding questions for practice.geeksforgeeks.com and reviewing their test cases.

## PROJECTS

### GARBAGE COLLECTOR FOR C

- Implemented a MLD (Memory Leak Detector) tool as library for C programs to catch memory leak and report them.
- Used linked list to store all the object and structure declared in the application.
- Implemented Xmalloc and Xfree to service any request for memory allocation and deallocation.
- Applied DFS Algorithm to track all the heap objects the application has created.

### CHATLIST USING LRU CACHE | JAVASCRIPT

- Implemented a ChatHandler using Least Recently Used Caching policy.
- Used Doubly Linked List and a Hash Map to perform insertion, deletion, and searching in order O(1) time

### SPLITWISE CASHFLOW MINIMIZATION | MAX HEAP

- A web app to minimize the total number of cash transactions needed to settle all the dependencies and resolve the complex network among the connected users.
- Used greedy algorithm that runs in order O(N\*Log(N)) time.
- Used Vis.js library to display the final transactions in a graph form.

### MARIO RUN | 2-D DYNAMIC PROGRAMMING

- Implemented a Smart Mario who collects the maximum number of coin possible in its path to the home by using 2-D dynamic programming approach.

## ORGANIZATIONS

### ACMVIT | SENIOR COMMITTEE MEMBER

December 2019 - MAY 2020

### C4PROJECTS | C++ MENTOR

AUGUST 2020 - Present