NANDINII YELESWARAPU

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https://github.com/nandiniiys

SKILLS

- Proficient in Java
- Proficient in Python
- Proficient in C
- Experienced in Linux Mint
- Experienced in Linux ElementaryOS
- Experience using VIM

RELEVANT KNOWLEDGE

➢ Data Structures: Stacks, Queues, Linked lists, Bags, Arrays, Sets, Binary Search Trees, 2-3 node trees, Red-Black BSTs, Hash tables and Graphs.

➢ Algorithms: Sorting (Selection sort, Insertion sort, Shell sort, Merge sort, Quick sort and Heap sort).
  Searching (SequentialSearchST, BinarySearchST, Binary Search Trees, Balanced Search Trees and Hash Tables)

➢ Projects:
  - Writing a program with calculates the percolation threshold of a system.
  - Implementing generic and iterable data structures such as double ended and randomized queues using arrays and linked lists.
  - Writing a program which solves the 8 puzzle (and all its generalizations) using the A* search algorithm.
  - Writing a program to implement *autocomplete* for a given set of N strings and nonnegative weights.
  - Implementing Grahams hull algorithm.
  - Writing a program to serve as a postfix calculator for bitwise operations.

EXPERIENCE

Supplemental Instruction leader | Student Success Center
Sept 2019 – Dec 2019
➢ SI leader for CS 210 course: "Data structures and Algorithms in Java"
➢ Work with students to clarify concepts, discuss ways to approach problems and discuss problem solving strategies.

Community Ambassador | The Honors college at UMASS Boston
AUG 2018 – PRESENT
➢ Edit the Honors College website under faculty supervision to keep it up to date.

➢ Create course description booklets using In Design with information regarding courses offered by the college each semester to be circulated among students.

English Tutor | Academic Support Program at UMASS-Boston
SEPT 2018 – MAY 2019
➢ Tutor students for English in the ESL program.

Math Tutor | ISSP at UMASS-Boston
MARCH 2018 – MAY 2018
➢ Tutor students in the program for College Algebra, Pre-calculus, Managerial calculus and Calculus I for science and math majors.

EDUCATION

BS in Computer Science | University of Massachusetts Boston | Honors College
SEPTEMBER 2017 – MAY 2021
➢ Cum GPA of 4.0
➢ Received the International Student Scholarship in Spring 2019.
➢ Received the new student scholarship from ISSP.
➢ Received the student scholarship for outstanding academic performance from ISSP for the spring 2018 semester.
➢ CSM Dean's list each semester.
➢ Honors college Dean's list each semester.

Pearson Edexcel International Advanced Levels | Jalaram Academy
SEPTEMBER 2015 – JANUARY 2017
➢ 3 As (Biology, Chemistry & Math(core mathematics and statistics)) and a B (Physics).

ACTIVITIES

ALPHA LAMBDA DELTA | NATIONAL HONORS SOCIETY | since Fall 2018
GOLDEN KEY SOCIETY | since Fall 2019
PEER MENTOR | HONORS COLLEGE | Fall 2018 - present
PEER MENTOR | ACADEMIC SUPPORT PROGRAM | Spring 2018
CLUB SECRETARY | DESI STUDENT ASSOCIATION | Fall 2018 – Fall 2019

THE RAHUL KOTAK FOUNDATION, KENYA – VOLUNTEER
➢ Volunteer with an NGO to conduct arts and crafts and, reading and writing, and hygiene workshops in primary schools in underprivileged sites.

REFERENCES

Professor Swaminathan Iyer
Computer Science professor at UMB
swaminathan.Iyer@umb.edu

Dean Rajini Srikanth
Dean of the Honors college and professor of English at UMB
rajini.Srikanth@umb.edu