

Aseem Awasthy

aseem.awasthy@gmail.com • (571)-789-8137

EDUCATION

Texas A&M University

Computer Engineering

Overall GPA: **3.9**

May 2027

Coursework

Program design and concepts

Basics of Dynamic memory and pointers as well as exception handling, Inheritance/rule of 3(copy assignment operator, copy constructors, destructors), basics of recursion, IO stream.

Data structures and algorithms

Sorting algorithms, runtimes/efficiencies, stack and queues, trees, graphs, SSSP/minimum spanning tree algorithms, various data structures (Priority queues, binary heaps, trees, etc.), hashing functions/tables, recursion and recurrence relations.

Other mentions

Discrete math, Differential equations and Calculus 3, Electrical circuit theory

Projects (C++)

Following C++ Programs were successfully created during coursework:

- Standard vector class using dynamic memory
- Merge/bubble/insertion sort using random iterators
- Linked List class using node structure and bidirectional iterators
- Binary Search Tree class using comparators and pair values
- Unordered map/hash table class using local and global iterators and chaining method
- Priority Queue using max binary heap as well as up/down heap functions
- Dijkstra's algorithm as well as topological sort

Honors

• Ap Honor

Fall 2021 – Summer 2023

Organizations

Circle K International: Organization that required its members to set up volunteering opportunities with various companies and the Galveston Community. Required 8 volunteering hours a month along with attending events relevant to our career choices.

Music and Poetry Appreciation: Organization that attends fundraising events, such as relay for life, to raise money for good causes.

ADDITIONAL INFORMATION

Basic Computer Skills: Python, Java, C++

Work Eligibility: Eligible to work in the U.S. with no restrictions

Prior Work experience: Delivery Driver at Domino's, Delivery Driver at Papa Johns, Team member at Freebirds world Burrito