

## Student Information

### CS5633: Design and Analysis of Algorithms

#### Student Information

Name: Adiba Masud

Major: Computer Science

Minor:

Prerequisite CS 2124 (Data Structure) completed:

Semester: 2

Instructor: Dr. Mohammad Abu Yousuf

Grade: A

When Discrete Math completed?

Answer: B.Sc. Semester 2

When Mathematical Foundations of Computer Science or equivalent completed?

Answer: B.Sc. Semester 4

When Algorithms course completed (optional)?

Answer: B.Sc. Semester 3

Optional – Company working for (Address): Lecturer, Daffodil International University, Bangladesh

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Optional – Telephone numbers where you can be reached: +12103507856

Your familiarity with algorithmic topics (mark with XX):

	Not sure	Know	Can illustrate	Can use to solve problems
Design Techniques:			XX	
Divide-and-Conquer:		XX	XX	
Greedy:		XX		
Dynamic Programming:	XX			
Parallel:				
Growth rates				
Sorting			XX	
Mergesort:		XX		
Quicksort:		XX		
Heapsort:				
Radixsort:		XX		
Selection		XX		
Graph Algorithms:		XX		
Minimum spanning tree:		XX		
Shortest path:				
NP-complete Problems:	XX			

Any special topics you would like to see covered in this course or pursue for your term project:

- Flow and Matching Algorithms
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Your expectations for this course:

After completing the course, I will have gained comprehensive knowledge of core algorithms, including sorting, searching, and graph algorithms. I will also have developed expertise in understanding research materials, working with real-world datasets, and engaging with advanced topics such as dynamic algorithms and algorithmic game theory.