

ACADEMIC DEGREE	<ul style="list-style-type: none"> The City College of New York - CUNY <ul style="list-style-type: none"> M.S. Computer Science 	2011 – 2013 New York, NY, USA
	<ul style="list-style-type: none"> Kuwait University <ul style="list-style-type: none"> B.S. Computer Science Minor in English Language and Literature 	2000 – 2005 Kuwait City, Kuwait
COMPUTER SKILLS	<ul style="list-style-type: none"> Operating Systems: Windows, Linux (Fedora, Ubuntu), Mac OS X. Programming Languages: C, C++, Java, Python, SQL, VHDL. 	
RESEARCH INTERESTS	<ul style="list-style-type: none"> Operating Systems Distributed Systems Mobile Systems 	
PROJECTS	<ul style="list-style-type: none"> Advanced Data Structures & Geographic Information System <ul style="list-style-type: none"> Objective: This project aims on providing an efficient orthogonal range query on polygon data. Given geographical data, the program will extract the polygon data out of it and preprocess it in such a way that makes it capable of supporting window query. Programming Language: C/C++ 	
	<ul style="list-style-type: none"> Graph Algorithms <ul style="list-style-type: none"> Objective: Implement a program that discovers a labyrinth of 1,000,000 vertices and finds shortest path between two points in an efficient time by using breadth first search (BFS) algorithm. Programming Language: C 	
	<ul style="list-style-type: none"> Computational Geometry <ul style="list-style-type: none"> Objective: Implement a program that takes set of line segments, checks if it is connected, then constructs tree of minimal length touching all segments using worst-out greedy algorithm. Programming Language: C 	
	<ul style="list-style-type: none"> Computational Geometry <ul style="list-style-type: none"> Objective: Implement a program that takes a set of lines and finds the largest perimeter bounded convex k-gon described by these lines. This is achieved by a dynamic-programming type algorithm combined with a line sweep over the intersection points of the lines. Programming Language: C 	
	<ul style="list-style-type: none"> Divide-and-Conquer <ul style="list-style-type: none"> Objective: Create set of functions that realize fast matrix arithmetic on recursively presented matrices. Programming Language: C 	
	<ul style="list-style-type: none"> Advanced Data Structures <ul style="list-style-type: none"> Objective: Implement a text editor that provides create text, text length, get, append, set, insert, and delete line operations in an efficient time of $O(\log n)$. Programming Language: C 	
	<ul style="list-style-type: none"> Advanced Data Structures <ul style="list-style-type: none"> Objective: Implement a measure tree which is a dynamic structure that keeps track of a set of n intervals, supporting insertion and deletion of intervals in time $O(\log n)$, and that answers queries for the measure of the union of the intervals in $O(1)$ time. Programming Language: C 	
	<ul style="list-style-type: none"> Advanced Data Structures <ul style="list-style-type: none"> Objective: Implement a Bloom filter for 2,000,000 strings with an error rate of around 2.5%, using only 2Mbyte of memory. It will support a query of whether a string q is contained in the set or not. Programming Language: C 	

EVENTS ATTENDED	<ul style="list-style-type: none"> 2012 Joint Mathematics Meetings <ul style="list-style-type: none"> MAA Discrete and Computational Geometry Course 	Jan 2 nd – 3 rd , 2012 Boston, MA, USA
EVENTS ORGANIZED	<ul style="list-style-type: none"> 21st Fall Workshop on Computational Geometry 2011 <ul style="list-style-type: none"> Role: Member of Organizing Team 	Nov 4 th – 5 th , 2011 Manhattan, NY, USA
	<ul style="list-style-type: none"> Second FINA Men's World Water Polo Development Trophy <ul style="list-style-type: none"> Role: Public Relations 	Apr 5 th – 11 th , 2009 Kuwait City, Kuwait
	<ul style="list-style-type: none"> First Olympic Council of Asia Sport Congress <ul style="list-style-type: none"> Role: Public Relations 	Mar 12 th – 14 th , 2009 Kuwait City, Kuwait
	<ul style="list-style-type: none"> Olympic Council of Asia Headquarters Inauguration Ceremony <ul style="list-style-type: none"> Role: Public Relations 	Mar 11 th , 2009 Kuwait City, Kuwait