Aayush Aggarwal
Resumé

CONTACT

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EDUCATION

UNIVERSITY Indraprastha Institute of Information Technology Delhi (IIITD)
B.Tech, Computer Science, class of '20
CGPA: 8.59 (upto 6th semester)
Technical Electives: Operating Systems, Computer Networks, Network Systems & Security, Artificial Intelligence, Theory of Computation, Randomized Algorithms

HIGH SCHOOL Delhi Public School Dwarka, New Delhi, class of 2016
Class 12th : 95.8% | **Class 10th** : 10 CGPA

SKILLS

LANGUAGES
C++ • C • Python • Java • C#
Assembly • Matlab • Bash • SQL
HTML • CSS • PHP • JavaScript

TOOLS & FRAMEWORKS
Git • Latex • MongoDB • Selenium
Vim • Sublime Text • Android Studio
BootStrap • JQuery • Arduino

MISC. SOFTWARES
After Effects • Premiere Pro • Vegas
FL Studio • Illustrator • PhotoShop
Blender • Maya • Cinema 4D • 3Ds

LINKS

aayush9.github.io
LinkedIn: /aayush9
Github: /aayush9
Codeforces: /aayush9
Codechef: /aayush9

INTERESTS

Algos & Data Structures
Artificial Intelligence
Computer Networks
Systems & Security

HOBBIES

Competitive Programming
Graphic Designing
Chess (Non-Competitive)
Rubik's Cube

EXPERIENCE

SUMMER INTERN @ MICROSOFT IDC
Manager: Mr. Arijit Sengupta
Interned with Microsoft India for a 2 month period, from May 2019 to July 2019. Worked with the Azure Compute team to improve the existing scheduler to efficiently deploy apps & services across data-centers around the globe. Received a pre-placement offer from the company to join them full-time in 2020.

UNDERGRADUATE RESEARCH
Supervisor: Dr. Tanmoy Chakraborty
As an independent project in college, worked on studying opinion spam on e-commerce marketplaces, specifically amazon.in, after their introduction of new policies to prevent collusion. It involved identifying groups based on renowned data mining techniques, and classifying them based on certain behavioural traits that can determine extremist review behaviour based on individual & collective information from these groups.

TEACHING ASSISTANT
Taught 2 courses at IIIT-Delhi as a teaching assistant.
Algorithm Design & Analysis	(Winter '19)
Competitive Programming	(Summer '18)

VOLUNTEER WORK
Organisation: Codechef
Worked with Codechef for the month of May 2018 to help teach a workshop to school children (grades 6th - 12th) the fundamentals of programming and logic , data-structures and algorithms. It involved curating lesson plans and assessments, and delivering them effectively after undergoing a rigorous pedagogy session from Teach for India fellows.

PROJECTS
Muti-user chat server: A communication application which allows encrypted file transmission and message communication between users over TCP incorporating public-private key exchange, along with diffie-hellman shared key establishment.

Super Tic-Tac-Toe AI: Made bots to play the game of super tic-tac-toe, using min-max search with alpha-beta pruning, and used it to train another bot following the reinforcement learning paradigm using the Q-Learning technique.

Chain Reaction Game: A game made in form of a java applet, similar to the original chain reaction game, but with additional features like network play.

ARM Assembly Simulator: A C++ program that interprets and runs programs in form of ARM assembly instructions, with the 5 stages of the ARM pipeline.

Cardiosol: An application that detects the condition of Tachycardia using webcam, Cardiosol allows easy medical checkups at home. It measures heartbeat using web-cam, and connects the user with doctors, in case possible occurrences of disease.

STUDENT CLUBS & ACTIVITIES

Elite Member FooBar Coding Club, IIIT Delhi
Member Evaristé Mathematics Club, IIIT Delhi
Member INK. Graphics Design Club, IIIT Delhi
Creative Team & Event Organizer Odyssey 2017, IIIT Delhi
President I.T. Council, DPS Dwarka

AWARDS & ACCOLADES

2018	All-India 7th, ACM-ICPC Kharagpur regionals
2018	All-India 31st, ACM-ICPC India Online Qualifier round
2018	Second, ESYA'18 Techathlon, (a tournament of 6 events) as a lone wolf (against teams of 2), IIIT Delhi
2018	First, NITD Programming League, NIT Delhi
2017	Reached Master on CodeForces (Rating 2152)
2017	All-India 2nd, Codechef July Long Challenge (24th global)