

Aayush Aggarwal

Resumé

CONTACT

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EDUCATION

UNIVERSITY Indraprastha Institute of Information Technology (IIIT), Delhi
B.Tech, Computer Science, class of '20
CGPA: 8.59 (upto 7th semester)

HIGH SCHOOL Delhi Public School Dwarka, New Delhi, class of 2016

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. SOFTWARE

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

CLUBS & ACTIVITIES

Elite Member

FooBar Coding Club, IIIT Delhi

Member

Evaristé Mathematics Club, IIIT Delhi

Member

INK. Graphic Design Club, IIIT Delhi

Event Organizer

Esya 2018 Technical Fest, IIIT Delhi

Creative Team & Event Organizer

Odyssey 2017 Cultural Fest, IIIT Delhi

President

I.T. Council, DPS Dwarka

Multimedia Head

C.O.R.E. Computer Club, DPS Dwarka

LINKS

aayush9.github.io

LinkedIn: /aayush9

Github: /aayush9

Codeforces: /aayush9

Codechef: /aayush9

EXPERIENCE

SUMMER INTERN @ MICROSOFT IDC

Manager: Mr. Arijit Sengupta

(May'19 - July'19)

- Worked with the Azure Compute team
- Experimented with new approaches to improve the existing container scheduling system for reliability & efficiency
- Received a pre-placement offer to join them full-time in 2020
- **Tools:** C#, Go, Python, Powershell, Kusto, Docker, Kubernetes

UNDERGRADUATE RESEARCH

Supervisor: Dr. Tanmoy Chakraborty

(June'18 - Dec'18)

- Studied opinion spam on e-commerce marketplaces (amazon.in)
- Crawled review data and used data mining techniques to identify groups
- Hand-crafted characterizing features, and trained machine learning models to classify them and study identifying traits
- **Tools:** Python, Selenium, MongoDB, Scikit-Learn, Github

TEACHING ASSISTANT

Helped teach 2 courses at IIIT-Delhi as a teaching assistant:

- Algorithm Design & Analysis (Winter '19)
- Competitive Programming (Summer '18)

WORKSHOP TRAINER

Organisation: Codechef

(May'18 - June'18)

- Taught 6th - 12th graders fundamentals of programming and logic, data structures and algorithms
- Curated lesson plans and designed logical & programming assessments
- Conducted lectures, assessments, and hands-on activities, after undergoing through rigorous pedagogy sessions from Teach for India fellows

PROJECTS

Multi-user chat server: A communication application that 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 the 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 the form of ARM assembly instructions, with the five 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 webcam and connects the user with doctors, in case possible occurrences of disease.

AWARDS & ACCOLADES

2019 1st, ICPC Kanpur Regional - Qualified for 2020 World Finals

2019 All-India 1st, Google Kick Start Round D (Global 10th)

2019 All-India 2nd, ICPC India Online Round

2018 Second, ESYA'18 Techathlon, (a tournament of 6 events) as a lone wolf (against teams of 2), IIIT Delhi

2018 Master on CodeForces (Rating 2276): Top 15 in India

2017 All-India 2nd, Codechef July 10-Day Long Challenge (24th global)