



# Anunay Yadav

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## Education

### Indraprastha Institute of Information Technology

B.Tech (CSE)

2018 - Present

CGPA: 8.83

(till 4<sup>th</sup> Semester)

### Kendriya Vidyalaya Pragati Vihar, New Delhi

CBSE

2017 - 2018

Percentage: 93%

### Kendriya Vidyalaya Pragati Vihar, New Delhi

CBSE

2015 - 2016

CGPA: 9.00

## Skills

### Programming Languages

C/C++, Java, Python

### Interest Area

Competitive Programming, Machine Learning and Operating Systems.

### Tools and Technologies

MySQL, Git, Unity, JavaFX, Numpy, Sublime, Polygon (Codeforces)

### Technical Electives

Data Structures & Algorithms, Advanced Programming, Number Theory, Discrete Mathematics, System Management, Operating Systems, Analysis & Design of Algorithms, Graph Theory, Theory of Computation, Database Management System

## Research Experience

### Optimization of Garbage collection over GPU

(April, 20 - Present)

Guide: Prof. Vivek Kumar and Prof. Piyush Kedia

Team Size - 2

- Extracting Garbage collection algorithms from OPENJDK to C code with better efficiency which includes removing Polymorphism, Inheritance, Encapsulation and Abstractions.
- Tested Garbage Collection Algorithms on Dacapo and Renaissance benchmark.

## Projects

### Friendly Farmer (Python, SQLite) [Github]

(Jan, 20 - March, 20)

Guide: Prof. Mukesh Mohania

Team Size - 5

- Implemented a web App made with Flask (Python) using SQLite for database management to help each stakeholder at each stage of food production to interact efficiently and enforce transparency while giving realtime statistical data about the stakeholders.

### Shell (C) [Github]

(Feb, 20 - March, 20)

Guide: Prof. Piyush Kedia

Team Size - 1

- Implemented a working Linux shell using C programming Language which supports multiple Pipes, I/O redirection and file descriptor handling.

**Plants Vs Zombies (JavaFX) [Github]**

(Sept, 19 – Dec, 19)

Guide: Prof. Vivek Kumar

Team Size – 2

- A Java game project based on the popular game going by the same name using JavaFX. Used various controllers and AnimationTimer, and implemented design interfaces on FXMLoader.

**Cubes (C#, Unity) [Github]**

(Feb, 19 – March, 19)

Guide: Prof. Aman Parnami

Team Size – 2

- Cubes is a survival themed Android game developed with Unity using C# and Accelerometer

**Awards and Achievements**

- Competitive Programming Profiles : Present
  - Candidate Master on CodeForces (Rating 1953 | Top 300 in India) and have solved over 600 problems on CodeForces, Profile – *Anunay1605*.
  - 6\* rated coder on CodeChef (Rating 2213 | India Rank : 338<sup>th</sup> | Global Rank : 900<sup>th</sup>), Profile – *alphaq2*.
- All-India 2<sup>nd</sup>, Global Rank 15<sup>th</sup> in Codeforces Round #637 division 2 (out of 23207 participants). (2020)
- All-India 27<sup>th</sup>, Global Rank 446<sup>th</sup> in Google Hashcode 2020 (out of 11000 teams). (2020)
- All-India 60<sup>th</sup>, Global Rank 235<sup>th</sup> in Google KickStart 2020 Round A (out of 13602 participants). (2020)
- All-India 8<sup>th</sup>, ACM-ICPC Asia Gwalior Pune Regionals (out of 123 teams). (2019)
- All-India 44<sup>th</sup>, ACM-ICPC India Online Qualifier Round (out of 3767 teams). (2019)
- All-India 57<sup>th</sup>, ACM-ICPC Asia Amritapuri Regionals (out of 324 teams). (2019)
- Global Rank 67<sup>th</sup> in CodeChef July Long Challenge 2019 division 1. (2019)

**Positions of Responsibility**

- Social Work: Worked with Reachout Foundation (NGO) on a Research Project to survey responses of People on the effects of Covid -19 on Marginalized communities and socialization. (May, 20 – June, 20)
- Teaching Assistant for FooBar's Programming Bootcamp I (June, 20 – Present)
- Foobar Elite Member: IIITD Competitive Programming Club. (Feb, 20 – Present)
- Evariste Member: IIITD Mathematics club. (Feb, 20 – Present)
- Event Head, ESYA'19 of Prosort Women with over 200 registrations. (July, 19 – Aug, 19)

**Interests and Hobbies**

- Have participated in KVS Delhi state representing school consecutively for 4 years in Skating, Badminton and Football.
- Played for "Classic XI" in *Joga Bonito* IIITD Football Intramurals 2020.

Declaration: The above information is correct to the best of my knowledge.

Anunay Yadav

Date: July 1st, 2020