

# Sarthak Kapoor

🌐 sartkap | in sarthak | +91 991 017 5150 | ✉ sarthakkapoor76@gmail.com

## EDUCATION

### IIT KANPUR

B.TECH, COMPUTER SCIENCE

July 2018-2022 (Expected)

CPI: 9.4/10.0

### C.R.P.F. PUBLIC SCHOOL

Rohini, Delhi

Class 12: 97% (CBSE Boards)

Class 10: 10.0 CGPA

## COURSEWORK

Introduction to Computing

Data Structures and Algorithms

Software Development and Operations

Computer Organisation

Discrete Mathematics

Logic in Computer Science

Real Analysis & Multivariable Calculus(A\*)

Linear Algebra and Differential Equations

A\* (exceptional performance)

## SKILLS

### Proficient

C++ • C • Python • Javascript

Bash • NodeJS • Git • SQL

### Exposure

CSS • Verilog •  $\LaTeX$  • HTML • NumPy

Vim • PyTorch • React • Django

## RESPONSIBILITIES

### PROJECT MENTOR

*Programming Club | Mar 20 - Present*

- Guided a group of 25+ students to advanced competitive programming techniques and concepts.
- Organized 25+ contests and published blogs to assist learning.

### SECRETARY

*Programming Club | Mar 19 - Mar 20*

- Responsible for conducting a variety of events to increase the participation of students in programming related activities.
- Organiser and problem setter of the Freshers' programming contest.

### ACADEMIC MENTOR

*Counselling Service | Apr 19 - Apr 20*

- Responsible for guiding freshmen in the courses Real Analysis and Linear Algebra by conducting lectures and remedial sessions at regular intervals.

## WORK EXPERIENCE

### SUMMER OF CODE | FULL STACK DEVELOPER INTERN

May 2019 - July 2019 | IIT Kanpur | 🌐 EasySale

- Implemented an **e-commerce web application** from scratch which would publish the businesses of small-scale manufacturers online.
- The app boasted of a **intuitive interface** with features like real time order status updation, payment through external API.
- Technology used : PERN (PostgreSQL, Express, React, NodeJS) stack.

## ACHIEVEMENTS

### SCHOLASTIC

- Sole recipient of the prestigious **Tower Research** Scholarship in the batch of 2022 at IIT Kanpur for being the best performer.
- Received the **Academic Excellence Award** for outstanding academic performance twice, in both freshman and sophomore years.
- Awarded the highly acclaimed **Director's Scholarship** for being amongst the top rank holders at IIT Kanpur in the year 2018.
- **All India Rank 142** in **JEE Advanced** among 0.23 million aspirants.
- **All India Rank 360** in **JEE Main** among 1.2 million candidates.
- **Kishore Vaigyanik Protsahan Yojana (KVPY)** fellow with AIR 140.
- **National Talent Search Examination (NTSE)** Awardee, 2015-16.

### COMPETITIVE PROGRAMMING

- Among **top 200** Indians on *Codeforces*, **Master** (max rating 2114).
- Among **top 0.3%** Indians on *Codechef*, **5 star** (max rating 2146).
- Stood among **top 50** Indians in the prestigious **Google CodeJam 2020 Round 1C** among 10,000+ participants worldwide.
- Stood among the 400 competitors worldwide who qualified for **Round 3** of the reputed algorithmic tournament **TopCoder Open (TCO) 2020**.

## PROJECTS

### LIFE@IITK | 🌐 life-iitk

*Programming Club, Best Social Project*

- Implemented a campus friendly app which helped in **centralising information** about all campus-related events and activities.
- App had additional features like **personalised calendar**, an **interactive campus map** and individualised campus event feed.
- Used **Django**, **PostgreSQL** and **React** for development of the app.

### CONNECT-4

*Mentor - Prof. Purushottam Kar*

- Implemented a desktop based **Connect-4** game with a pleasant user interface with the help of **Pygames (Python)**.
- Developed two separate intelligent bots, one using **Monte Carlo simulation** and the other based on **Minimax Algorithm**.

### ALGORITHMS-IN-DEPTH

*Programming Club*

- Learnt the application of a variety of **algorithmic techniques** including **graph theory**, **string matching** and **dynamic programming**.