Sarthak Kapoor

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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 Programming
Data Structures and Algorithms
Software Development and Operations
Computer Organisation
Discrete Mathematics
Logic in Computer Science
Real Analysis and 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.
• Organized 15+ 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
Couselling Service | Apr 19 - Apr 20
• Responsible for guiding freshmen in the courses Real Analysis and Linear Algebra by conducting lectures and remedial sessions.

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.
- Worked in a team of 4 and made use of **PERN** stack for development.

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 and ideas** for frequently occurring computational problems.