Sarthak Kapoor

SOPHOMORE YEAR UNDERGRADUATE - COMPUTER SCIENCE AND ENGINEERING - IIT KANPUR

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Education _____

Indian Institute of Technology, Kanpur

CPI - 9.5/10.0(present)

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

July 2018 - April 2022 (Expected)

C.R.P.F. Public School

Percentage - 97%

HIGH SCHOOL, 12TH GRADE

April 2017 - March 2018

CGPA - 10.0/10.0

HIGH SCHOOL 10TH GRADE

April 2015 - March 2016

Scholastic Achievements

Tower Research Scholarship Award

ip Awardee (received in 2nd year B.Tech.)

Academic Excellence Award, IIT Kanpur(awarded to top 5% freshmen based on academic performance)

Director's Scholarship Awardee, IIT Kanpur(awarded to top rankers of the institute)

All India Rank 142 JEE Advanced (amongst 230000 candidates)
All India Rank 360 JEE Mains (amongst 1.2 million candidates)

KVPY Scholarship Awardee(conducted by Indian Institute of Science and Technology)

NTSE Scholarship Awardee(National Talent Search Examination)

National Top 1% in National Standard Examination in Chemistry(NSEC)

Projects _

AlgorithmsInDepth Algorithms-In-Depth

PROGRAMMING CLUB

May 2019 - July 2019

- A learning project, which included study as well as implementation of various optimized algorithms.
- Regular discussions were held and extensive practice of all the covered algorithms was carried out.

Connect-4 game in python

Connect4

Sept 2018 - Nov 2018

PROJECT UNDERTAKEN UNDER PROF. PURUSHOTTAM KAR

- The AI player was implemented using both Minimax Algorithm and Monte-Carlo Simulation.
- The game had the unique feature of user specifying the board size.

Life@IITK Life@IITK

PROGRAMMING CLUB, BEST SOCIAL PROJECT

May 2019- July 2019

- Implemented an app (both web and mobile) which populated the feed of a user based on the events/clubs of his choice.
- The app also had the feature of generating a personalised calendar of a person based on his current courses and events he chooses.

IITK Summer of Code

IIT KANPUR, SUMMER INTERN PROJECT

May 2019- July 2019

• Implemented an e-commerce web-app from scratch which would help small scale manufacturers bring their business online.

Computer Securities

PROGRAMMING CLUB

May 2019- July 2019

- · A learning project, which included building of basic CTF skills and efficient implementation of various encryption schemes like AES, DES.
- Worked on breaking some cryptographic systems by exploiting the algorithms.

Relevant Coursework _

Introduction to Programming Real Analysis and Multivariable Calculus(A^*) Software Development(i) A^* - Exceptional Performance

Discrete Mathematics
Linear Algebra and Differential Equations
Mathematics for Computer Science(i)

i - In Progress

Data Structures and Algorithms
Computer Organisation(j)

Skills _

ProficientC++, Python, Bash, NumPyExposureJava, Javascript, MATLAB, VerilogUtilitiesLTEX, Shell Utilities, Git, PostgreSQL

Position of Responsibility

Programming Club, IIT Kanpur

SECRETARY March 2019 - Present

• Responsible for conducting contests and activities for campus community and conducting lectures and workshops on various topics for interested students.

Counselling Service, IIT Kanpur

ACADEMIC MENTOR

July 2019 - Present

• Responsible for teaching concepts of two first year courses(Real Analysis and Multivariable Calculus, Linear Algebra and Differential Calculus) and taking various lectures on them.

Hall-5, IIT Kanpur

Webmaster July 2019 - Present

• Responsible for maintaining and developing the website of Hall of Residence - 5 at IIT Kanpur