

THIRD YEAR UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING

Indian Institute of Technology Kanpur

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Education _____

Year	Degree	Institution	CGPA/%
July'17 - Present	B.Tech, CSE	Indian Institute of Technology, Kanpur	9.6/10.0
2017	AISSCE – XII	Holy Cross S.S School (KAPA), Raipur	91.6%
2015	CBSE – X	Holy Cross S.S School (KAPA), Raipur	10.0/10.0

Scholastic Achievements _____

2020	Academic Excellence Award, awarded for academic year 2018-2019	India
2017	All India Rank 188, in Joint Entrance Examination (JEE) Advanced among 150,000 candidates	India
2017	All India Rank 291, in Joint Entrance Examination (JEE) Mains among 11,00,000 candidates	India
2017	National top 1%, National Standard Examination in Physics (NSEP) & Chemistry (NSEC)	IAPT
2017	State top 1%, in National Standard Examination in Astronomy (NSEA)	IAPT
2016	All India Rank 138, in Kishore Vaigyanik Protsahan Yojana (KVPY) among 50,000 candidates	IISC, Banglore
2015	NTSE Scholarship Awardee, selected in top 750 students out of 8,00,000 candidates	India

Programming Achievements _____

2020	AIR 1 & World Rank 5, among 26000+ participants in CodeChef April Long Challenge 2020	CodeChef
2019	Team Rank 88 , in ACM-ICPC'19 Amritapuri Regionals in 350 teams selected from 4500 teams	CodeChef
2019	Completed all 5 levels, of Google foo-bar challenge	Google
2019	All India Team Rank 31, in Google Hash Code 2019	Google
2019	Country Rank 63, in Round 2 of Google Code Jam 2019	Google
2018	Team Rank 179 , in ACM-ICPC'18 Amritapuri Regionals in 250 teams selected from 3000 teams	CodeChef
2020	AIR 23, Rated 6-star, among 1,80,000+ coders on CodeChef [Rating 2462]	CodeChef

Experience _____

Full Stack Developer Intern

Kanpur, India

SUMMER OF CODE, PROF. SANDEEP SHUKLA (WITH SUPPORT FROM NUTANIX AND UPSIDC)

Summer - 2018

- Implemented Saviour, an android application to detect accident with the help of gyroscopic, acceleration sensors in the android and Raspberry Pi (IoT) for detecting air-bag inflation in the vehicle for confirmation
- Notified the near-by hospitals (tracked via Google-Maps) and kins via a notification message/mail
- Realised a Desktop Application in JAVA to handle Derby database through user-friendly GUI
- Conceptualised Software Architecture, WebDev (PhP, JavaScript) and Database Management (SQL and Derby)

Projects _____

Personal Diary

IIT Kanpur

Course Project, Prof. Nisheeth Shrivastav

Jul. 2019 - Nov. 2019

- Built a MERN Application to write personal notes along with pictures to collect your memories
- Used Express.js, MongoDB with Node.js on server-side and React-native on client side
- Used mobile-native functionalities including camera, gallery, storage to click and upload pictures
- Code can be found at https://github.com/AniketSanghi/Personal-Diary

Building gemOS IIT Kanpur

Course Project, Prof. Debadatta Mishra

- Implemented file system syscalls including open(), write(), read(), pipe(), fork() etc
- Implemented multi-level paging management for syscalls like mmap(), munmap(), mprotect()
- Implemented cfork() and vfork() by properly managing the shared memory regions and policies

Machine Learning IIT Kanpur

Course Project, Prof. Purushottam Kar

Jul. 2019 - Nov. 2019

Jul. 2019 - Nov. 2019

- Experimented with various classification algos including SGD, Coordinate Descent, Coordinate Maximisations
- Improved accuracy of FastreXML on a given sample dataset without affecting the time and space complexity
- Implemented a CNN with linear layers to solve a given image classification problem using pytorch

Filesystem in USErspace

IIT Kanpur

ACA PROJECT, PALLAV AGRAWAL

Jan. 2018 - Apr. 2018

- Implemented a FUSE filesystem in Golang with basic read/write/edit functionality using bazil's fuse library
- Actualized an IITK Student Search purely in bash by scraping data from office automation via curl
- Code can be found at https://github.com/AniketSanghi/CFT

Digital Monopoly Board Game

IIT Kanpur

COURSE PROJECT, PROF. INDRANIL SAHA

Jul. 2017 - Nov. 2017

- Materialised a multiplayer Digital Monopoly board game for personal computer in Python 3.6
- Realised the GUI using pygame, tkinter libraries and back-end using object oriented programming
- Code can be found at https://github.com/AniketSanghi/Monopoly-game

Mini Projects _____

polySATIIT Kanpur

HTTPS://GITHUB.COM/ANIKETSANGHI/POLYSAT

Oct 2018

- Implemented a SAT solver for propositional logic using the DPLL Algorithm in C++
- Experimented with various optimisations including 2-literal watch method and MOMS Algorithm

Cipher Decoder IIT Kanpur

HTTPS://GITHUB.COM/ANIKETSANGHI/CIPHER_DECODER

Mar 2019

Actualized a decoder to decode substitutional cipher including Gold-Berg cipher in Haskell

Technical Strengths

Programming C/C++ (Proficient), Python(Proficient), Scala(Proficient), Haskell, Golang, JAVA

Web Express.js, Node.js, React-native, React, MongoDB, mySQL, PhP, Javascript

Utilities Linux shell utilities, Git, Docker, Phabricator, OSX, Arduino, Łeta, Vim, HDL (Verilog)

Relevant Coursework _

A* Operating System

A* Comp. Lab (Bash + Haskell)

A* Logic for Computer Science

A* Computer Networks

A Introduction to ML

A Advanced Algorithms

Computer Organisation A Data Structures & Algorithms A Theory of Computation

A Database Management A Linear Algebra

i: ongoing

A*: Grade for exceptional performance **Extracurricular Activity** __

Mentor Algorithms InDepth, Programming Club

May. 2019 - Jul. 2019

- Taught various algorithm paradigms including Dynamic Programming, Greedy, Graph Theory, Game Theory
- Introduced various advance algorithms including KMP, Persistence, Centroid Decomposition, Huffman Coding

Secretary Association of Computing Activities

Apr. 2018 - Apr. 2019

• Helped with conducting coding contests, hackathons and other events in the campus

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