

SUDHANSHU BANSAL

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EDUCATION

Indian Institute of Technology Kanpur

Btech Undergraduate

Department of Computer Science Engineering

July 2017 - Present

Overall GPA: 8.0/10

Netaji Model School

12th CBSE

2017

Percentage: 91%

Holy Family Convent School

10th ICSE

2015

Percentage: 94.6%

ACADEMIC ACHIEVEMENTS

All India Rank 155 JEE ADVANCED, 160,000 candidates

All India Rank 604 JEE MAINS 1.12 million candidates

KVPY scholar

WORK EXPERIENCE

Sprinklr, Gurugram

Team:Research Role:Backend

May 2020 - June 2020

- Patched official lucene queryparser for validating results without sending to elasticsearch
- Developed a java based MockJsonServer(returns a dummy json response) for a quick frontend-backend development configured with slackbot
- Created a multithreaded data collection java application with persistence and caching in kafka and hosting it with elasticsearch

Addverb Technologies,Noida

Speech to text

December 2018

- Using keras created neural nets trained to pick specific speech words from continuous speech mode.
- Researched on the performance of neural nets like CNN, LSTM-RNN and siamese-NN.

Summer of Code, IIT Kanpur

Full stack Developer

May 2018 - July 2018

- Created a web based platform for mentors and students to communicate based on an individuals interest.
- Created chat app using socket programming, database management using mongodb, created a dynamic website using angular

HACKATHONS

InterIIT TechMeet

December 2019

- Placed 6th amongst all IITs in the 24hr long "Capture the Flag" event

Okta Hackathon

March 2019

- Worked with okta api and created the front end for web in React

Codechef Hackathon in collaboration with Alibaba Cloud

September 2018

- Worked with Codechef API and created a problem suggestor web app for new programmers. Placed in top 10

COURSE PROJECTS

Designing Java Compiler

January 2020 - March 2020

CS335: Compiler Design

- Create a Lexer and Parser(LLstar) for Java8
- Created AST using antlr

Working with gemOS

August 2019 - November 2019

CS330: Operating Systems

- Implemented system calls like fork, mmap for mapping virtual memory to physical memory.
- Implementing read-write locks on shared memory for parallel hashing

Interpreter for OZ

August 2019 - November 2019

CS350A: Principles of Programming Languages

- Designed assignment store for immutable data
- Designing interpreter for threads and other data structures

PROJECTS

Internet of Things, Alexa Skill

May 2018 - July 2018

Programming Club IIT Kanpur

- Worked with various amazon services like Lambda,Alexa skill kit, Rekognition,SNS, S3 bucket, Dynamodb
- Created an app which reports the replaced objects in a video

RELEVANT COURSES

Programming : Data Structure and Algorithm, Algorithms2, Principles of Programming Languages

Systems : Operating Systems, Compiler Design, Designing Verifiable Secure Systems, Database Systems, Programming for Performance(i), Computer Organisation

Machine Learning : Intro to ML, Statistical NLP(i), Linear Algebra and Differential Equations

Computation: Discrete Mathematics, Probability in CS, Logic, Numerical Methods, Theory of Computation, Cryptography, Game Theory(i)

i :- Ongoing Courses

TECHNICAL STRENGTHS

Computer Languages	C/C++(Proficient) , Java, Python, Javascript, Haskell
Web	MEAN, mysql, socket.io
Operating Systems	Ubuntu, Arch
Tools	ElasticSearch, Lucene, Kafka, Kubernetes, Gradle, Keras

POSITION OF RESPONSIBILITY

Programming Club

May 2019 - July 2019

Deep Dive Into CP19 Mentor

IIT Kanpur

- Mentored a group of 15 students teaching them algorithms that are used in competitive programming

INTERESTS

Competitive Programming

- Rated **candidate master** on [codeforces](#) and highest rating of **5 star** on [codechef](#)