

Saksham Arora

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EDUCATION

BIT MESRA

B.TECH IN COMPUTER SCIENCE
2018 - PRESENT | RANCHI, INDIA
CGPA: 8.50

ST. JOSEPH'S SCHOOL

SECONDARY EDUCATION
ISC | UTTAR PRADESH, INDIA
PERCENTAGE - 95.75

PROFILES

Codechef: [saksham9575](#)

Codeforces: [saksham9575](#)

Leetcode: [saksham9575](#)

COURSEWORK

UNDERGRADUATE

Data Structures
Algorithm Design and Analysis
Operating Systems
Database Management System
Object Oriented Design

ADDITIONAL

Competitive Programming
Deep Learning (ANN and CNN)
Web Development

SKILLS

PROGRAMMING

Languages :

- C++ • C#
- Python
- JavaScript
- Bash

Libraries :

- OpenCV
- ReactJS

Familiar :

- ANN • CNN • MySQL
- ExpressJS • MongoDB
- AWS Lambda • Docker

POSITIONS

- **VICE PRESIDENT** at IEEE BIT Mesra
- **DIRECTOR** at ACM BIT Mesra

EXPERIENCE

MICROSOFT | SDE INTERN

May 2021 - July 2021

CRIO WINTER OF DOING (AWS Project) | **EXTERNSHIP**

January 2021 - April 2021

- I worked on **Task Scheduler and Orchestrator Library** which helps the user to create an AWS Lambda function and schedule it.
- The Orchestrator can schedule N tasks one after the another based on some condition check between the tasks.
- **Impact:** The Scheduler is capable of scheduling **50k to 100k** lambda functions. Users with no prior experience to lambda functions can create lambda functions and schedule them.
- **Technologies Used:** ReactJS, ExpressJS, Docker, AWS Lambda, Serverless.

CODEASYLUMS | **PROBLEM-SETTER**

June 2020 - October 2020

- I created **Competitive Programming Problems** based on data structures and algorithms for CodeAsylums contests.
- I made Python Scripts which generates random input and automates the creation of test cases and expected output.
- **Languages Used:** C++, Python.

PROJECTS

THE BLIND GUIDE | **HACKABIT 2019**

- Our team built a **hand-mounted device** which **helps blind people** to know the objects around them and guide them to that particular object.
- The device has a camera attached on the palm through which it captures the video, which is sent to the **Real Time Object Detection Model** that detects the objects in the video and queries the user whether to guide him/her to specific object through headphones attached to the device.
- **Impact:** The device detects objects at **30 FPS** with an accuracy of **57.9 %**. Stickers can be placed on important objects which are detected with an accuracy of **90 %**.
- **Technologies Used:** OpenCV, YOLO, Raspberry Pi.

ACHIEVEMENTS

- **Coding Ninjas** Code Kaze 2021
- **World Programming Championship** IIT Bombay 2020
- **Google Kickstart** Round H 2020
- **Google Kickstart** Round D 2020
- **Hack the Interview** Asia Pacific 2020
- **Hackerrank** Problem Solving 2020
- **Nagarro** Codesule August 2020
- **ACM ICPC** Online Qualifiers 2019
- **CodeChef** Rating - 2062
- **Hackabit2.0** 2019

Rank 1 out of **12K** participants
Rank 22 out of **15K** participants

Rank 357 out of **5K** participants
Rank 619 out of **10K** participants
Rank 270 out of **4.5K** participants
Advanced level Certified

Rank 2 out of **5K** participants
Rank 133 (Gwalior-Pune Region)
Country Rank - **2019** out of **100K** users
2nd Runner-Up out of **50** teams,
Selected out of **5K** teams across India