Sarthak Singhal

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EDUCATION

IIIT HYDERABAD
B.Tech in Computer Science
August 2017 - May 2021 (expected)
CGPA: 8.81/10.0

RELEVANT COURSES

• Data Structures • Software Analysis • Engineering Systems • Operating Systems • Database Systems • Distributed Systems • Signal Processing • Graphics • Artificial Intelligence • SMAI • Machine Learning • Information Security • Data Mining • Hydrological Modelling

SKILLS

Day to Day:
• C • C++ • Python • Bash • SQL • CSS • HTML5
Familiar:
• Javascript • Matlab • Django • Flask • Bootstrap • Numpy • Git • Linux • Google office suit

ACHIEVEMENTS

• Secured IIT JEE (mains) rank 990 among 1.2 million people
• Secured IIT JEE (advanced) rank 1953 among .15 million short listed people
• Secured 395/450 in BITSAT
• One out of 1523 fellows selected for the prestigious KVPY scholarship (2016-2017) by IISC and DoST, Government of India
• Perfect 10 grade in spring 2020 semester

POSITIONS

• **Teaching Assistant:** Manage class of about 250 students for Psychology course
• **Class Representative:** Act as a mediator between students and faculty
• Member of college mess committee
• Open source contributor at Codeuino and TheAlgorithms

CODING PROFILE

• Codeforces max rating 1531
• Secured **1753rd** rank among 8K people in Google kick start round D 2020
• Participated in Facebook Hacker Cup
• Among **top 5** percentile from institute on GeeksforGeeks coding platform

WORK EXPERIENCE

SOFTWARE TRAINEE | Delayed due to virus outbreak
OnePlus | Hyderabad

SOFTWARE DEVELOPER | June 2020 – Present
MyHealthBuddy | WFH
- Automated the manual task of entering company sales details into the database by creating dynamic forms.
- Worked on role based dashboard and added functionalities specific to the role.

SOFTWARE ENGINEER | May 2019 – September 2019
Aided | Hyderabad
- As a software engineer my role was to setup and manage the website, web-application and database for the company.
- Designed automated reports based on the given test.

TRAINEE | August 2018 – December 2018
Five Finger Solutions | Hyderabad
- Worked on a computer vision team project in which my job was to search upon the various feature detection methods and select the most suitable among them.

PROJECTS

LINUX SHELL Operating Systems | C
- Bash like shell for linux with support for piping and redirection, written using system calls.

SCALABLE WEB CACHE Distributed Systems | Python
- Built a miniature scalable web cache for distributed setting which handles simultaneous requests from multiple clients.

SQL ENGINE Database Systems | Python
- Built a mini sql engine which runs a subset of SQL queries using command line interface.

DYNAMIC ZONE CLASSIFICATION Data Analytics | Python
- Analyze dynamic changes in classification of water and energy zones of India using rainfall and temperature datasets.

AI BOT Artificial Intelligence | Python
- Developed an AI bot which plays ultimate tic tac toe (a version of tic tac toe) using various game techniques.

LIBRARY PORTAL Web Development | SQL, Flask, Jinja templates
- Created a library portal with all basic functionalities of an online library system.

SIGNAL PROCESSING Signal Analysis | Python, Matlab
- Worked on several signal processing problems such as decoding telephone numbers, converting sound to images, reordering of audio chunks, reconstruction of images, slide automation etc.

GAME DESIGNING Game Development | Python, JavaScript, C++
- Designed several games like hangman, tic-tac-toe, space invaders, super mario, jetpack joyride, plane shooter, city surf

TREND ANALYSIS Data Analysis | Python
- Computed spatial and temporal trend in Indian climate using hydrological data.