Sarthak Singhal

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EDUCATION

IIIT HYDERABAD
B.Tech in Computer Science
August 2017 - May 2021 (expected)
CGPA: 8.87/10.0

SKILLS

Proficient:
• C • C++ • Python • Bash • SQL • CSS • HTML5
Familiar:
• Javascript • Matlab • Django • Flask • Bootstrap • Numpy • Git • Linux

POSITIONS

• **Teaching Assistant:** Manage class of about 250 students for Psychology course.
• **Class Representative:** Act as a mediator between students and faculty.
• **Open source contributor** at Codeuino and TheAlgorithms.
• **Team Leader:** Served as project head for several projects done throughout college.

RELEVANT COURSES

• Computer Programming • Data Structures • Software Analysis • Engineering Systems • Operating Systems • Database Systems • Distributed Systems • Computer Graphics • Artificial Intelligence • SMAI • Machine Learning • Information Security • Data Mining • Hydrological Modelling • Complexity Theory

ACHIEVEMENTS

• Secured 395/450 in **BITSAT** exam
• One out of **1523** fellows selected for the prestigious **KVPY scholarship** (2016-2017) by IISC and DoST, Government of India
• **Deans List** academic award for being top performer in class

CODING PROFILE

• Codeforces max rating 1549
• Secured **864th** global rank among 8K people in Google kick start round G 2020
• Among **top 5** percentile from institute on GeeksforGeeks coding platform
• Secured **1901st** global rank in Round 1 of Facebook Hacker Cup 2020
• Secured **986th** global rank among 50K people in Codeagon 2020

WORK EXPERIENCE

SOFTWARE TRAINEE OnePlus
Hyderabad | Revoked due to virus outbreak

SOFTWARE DEVELOPER MyHealthBuddy
June 2020 – August 2020 | WFH
- Increased productivity by automating the manual task of entering customer sale details into the database by creating dynamic forms.
- Worked on role based dashboard and added functionalities specific to the role.

SOFTWARE ENGINEER Aided
May 2019 – September 2019 | Hyderabad
- Setup and manage the website, web-application and database for the company.
- Designed dynamic test reports based on the entered data.

RESEARCH ASSISTANT Lab for Spatial Informatics
January 2020 – December 2020 | Hyderabad
- Analysed variation of water and energy zones of India at different temporal and spatial scales based on rainfall and temperature.

TRAINEE Five Finger Solutions
August 2018 – December 2018 | Hyderabad
- Worked on a computer vision team project to learn about software development process.

SELECTED PROJECTS

LINUX SHELL Operating Systems | C
- Implemented a bash like shell for Linux with support for piping, redirection and several other commands, 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.

AI BOT Artificial Intelligence | Python
- Implemented an AI bot using Minimax algorithm and Alpha-Beta pruning which plays ultimate tic tac toe (modified version of tic tac toe).

FACE CLASSIFICATION Machine Learning | Python
- Performed classification on face images and compared the results by applying different feature transformations and models.

MARKET-BASKET ANALYSIS Data Mining | Python
- Extract associations among items bought by customers by applying apriori algorithm on transaction data.

GAME DESIGNING Game Development | C++, OpenGL
- Built 2D arcade game and 3D flight simulator game with support for multiple camera views for enhanced gameplay.