Sarthak Singhal

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EDUCATION

IIIT HYDERABAD
B.Tech in Computer Science
August 2017 - May 2021
CGPA: 8.91/10.0

SKILLS

Proficient:
• C • C++ • Python • Bash • SQL • CSS • Java • 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

• Advanced Algorithms • 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 • Game 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
•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 ENGINEER Traceable
May 2021 – Present | Bangalore
• Core member in the open source engineering team for Hypertrace platform.
• Worked in Platform team to maintain backend support for the product.
• Currently working in Security team and adding new features to enhance product capabilities.

SOFTWARE DEVELOPER INTERN 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 INTERN Aided
May 2019 – September 2019 | Hyderabad
• Led a team of 5 to take company's product online.
• Setup and manage the website, web-application and database for the company.
• Designed dynamic test reports based on the entered data.

RESEARCH ASSISTANT Data Science and Analytics Center
July 2020 – January 2021 | Hyderabad
• Developed a dataset hosting platform for medical datasets under the guidance of Prof Vikram Pudi .

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.