HARSHIT VERMA

B.Tech. Computer Science and Engineering
UG(III Year I Semester)
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Registration No: B.Tech./CSE/18114029/2021

Indian Institute of
Technology
Roorkee

Area of Interest

Data-structures and Algorithms, Web development

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	*8.212*
2018	Twelfth	Sunbeam Bhagwanpur, Varanasi (CBSE)	*93.4 %*
2016	Tenth	St. John's Marhauli, Varanasi (ICSE)	*91.16 %*

Internships

Google Summer of Code | Scorelab   1 June 2020 - 24 Aug 2020
- Expanded functionalities of a python IDE called expressPython. Developed syntax highlighting feature using ANTLR tool, integrated terminal and fixed autocompletion feature.
- Did intensive memory leak checks using Valgrind and thread sanitizer and added continuous integration pipelines for three distros: Windows, Linux and macOS.
- Technologies used: C++, Qt, ANTLR, Github Actions CI

Web developer | Enthire   1 Dec 2019 - 6 Jan 2020
- Added an interview scheduling system in the product, which involved writing efficient algorithms and optimizing database calls and was responsible for the development of frontend and company HTML emails.
- Technologies used: Node.Js, VueJs, PostgreSQL.

Projects

Algovisualizer | SdsLabs Makers 2020   April 2020
- Web-based path-finding algorithms visualizer.
- Algorithms implemented are BFS, DFS, Dijkstra, Astar and Greedy BFS with three different visualizing speeds.
- Technologies used: React.Js

Attendance Bar (API) | Syntax Error 2019   27 - 29 September 2019
- Developed Web API for AttendanceBar android application, which makes attendance marking hassle-free.
- It uses the haversine formula to calculate distances, using the latitudes and longitudes provided by GPS.
- Technologies used: Golang, PostgreSQL.

Airport Checkin Management System | IIT Roorkee   October 2019
- Designed the airport check-in system with Object-oriented view, as a part of CSN-291 course.
- Made detailed Class diagrams, Activity diagrams, Sequence diagrams, Use-case diagrams and State diagrams.

2.5D Fighting game | SdsLabs Winter of Code 2018   1 Dec 2018 - 2 Jan 2019
- A one-to-one 2.5D fighting game for Windows, fully developed using blueprint visual scripting.
- Technologies used: Unreal Engine 4, Adobe mixamo.

Awards / Scholarships / Academic Achievements

- Secured an All India Rank 1445 in JEE Advanced - 2018, among 2,20,000 students.
- Secured an All India Rank 2615 in Joint Entrance Exam Main - 2018, among 1.5 million students.
- Awarded with a certificate of merit for scoring full marks in Computer Science 10th ICSE Board examination.
- Secured 3rd school rank and 9th city rank in National Cyber Olympiad(NCO) level - 1.

Skills

Computer languages	C++, Javascript, Golang
Software Packages	NodeJs, ReactJs, VueJs, ANTLR, Git, CMake, PostgreSQL
Minor/Honours Courses	Design and Analysis of Algorithms, Data structures and Algorithms, Operating Systems, System Software, Computer architecture, Object-Oriented Programming, Discrete Structures
Languages Known	English (SRW) , Hindi (SRW)

Positions of Responsibility & Extra Curriculars

National Service Scheme(NSS) | IIT Roorkee   2018 - 2019
- An active member of NSS Right to Education(RTE) cell, IIT Roorkee.
- Helped as Maths and English teacher for less privileged schools of Roorkee.

References

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