



Raghav Agarwal

Roll No.:R2142220983

B.Tech - Computer Science Engineering

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Github

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	University of Petroleum, Dehradun	7.45 (Current)	2022-Present
12th	St. Jude's School/ICSE Board	81.75%	2022
10th	St. Jude's School/ICSE Board	90.20%	2020

WORK EXPERIENCE

- Apna College** *August 2023 - Nov. 2023*
Teaching Assistant *Online Platform*
 - Assisted over 100 students in understanding frontend development concepts, providing guidance on HTML, CSS and JavaScript.
 - Collaborated with a 5-member teaching team to ensure clarity in learning materials and promote active student engagement.
 - Developed project-based learning modules, receiving positive feedback from both students and faculty.
- Parivartan Social Foundation** *June 2023 - Jul. 2023*
Summer Intern *Dehradun, Uttarakhand*
 - Drafted a comprehensive report and authored a blog on educational resources to aid teachers in Uttarakhand.
 - Worked alongside a team to gather data and resources, delivering a detailed and impactful final document.
 - Contributed to creating accessible educational materials for underprivileged regions, supporting the foundation's mission.

PROJECTS

- CoEdit: Create, Sync, Succeed** *Feb. 2025 - Present*
Dr. Avita Katal/Minor-2/UPES *Github*
 - Will Develop a real-time collaborative code editor using WebSockets, enabling seamless multi-user editing with live syncing.
 - Will Implement a distributed database architecture for scalability, fault tolerance, and efficient data synchronization across multiple nodes.
 - Design and optimize conflict resolution mechanisms to ensure smooth collaboration, preventing data overwrites and maintaining code integrity.
- Lodgr: End-to-End Website Development (Airbnb-like Platform)** *Jan. 2025 - Present*
Solo *Github*
 - Will Develop a full-stack web application mimicking Airbnb's platform, integrating key features such as user authentication, property listings, reviews and booking management.
 - Will Utilize the MERN stack (MongoDB, Express, React, Node.js) for building scalable and responsive web interfaces.
 - Will Implement robust backend functionality with REST APIs to handle complex user interactions and dynamic content.
- AlgoVista: Visualization of Pathfinding and Sorting Algorithms** *Sept. 2024 - Nov. 2024*
Dr. Ambika Aggarwal/Minor-1/UPES *Github*
 - Built an interactive platform for visualizing various pathfinding and sorting algorithms, helping users understand algorithmic efficiency and behavior.
 - Developed the frontend using HTML, CSS, and JavaScript, and implemented core algorithms in Java.
 - Enhanced the learning experience by providing real-time comparisons of different algorithms through dynamic visualizations.

TECHNICAL SKILLS

- Programming/Markup Languages/Frameworks:** Java, C, HTML5, CSS, JavaScript, NodeJs, React, Express, Bootstrap, Tailwind.
- Databases:** MongoDB, MySQL
- Version Control:** Git/GitHub
- Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating System, Data Communications and Networking

POSITIONS OF RESPONSIBILITY

- Team Lead,** Parivartan Social Foundation *June 2023 - Jul. 2023*

CERTIFICATIONS

- AWS Academy Cloud Architecting
 - AWS Academy Introduction to Cloud
 - Apna College Data Structures and Algorithms with Java
 - Apna College Web Development with MERN Stack
 - Parivartan Social Foundation
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