

Sarah Roomi

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EDUCATION

International Institute of Information Technology, Hyderabad <i>B.Tech in Computer Science and Engineering</i>	Grade: 9.22/10 <i>Aug 2024 – May 2027</i>
Bharti Public School <i>Class XII</i>	CBSE Grade - 94/100 <i>Aug. 2022 – May 2024</i>
National Victor Public School <i>Class X</i>	CBSE Grade - 93.2/100 <i>Aug. 2010 – May 2022</i>

PROJECTS

Distributed File System GitHub Link	Nov 2024
<ul style="list-style-type: none">Built a networked file system in C utilizing TCP sockets for inter-node communication and POSIX threads for handling concurrent client requests.Enabled concurrent user operations including file creation, deletion, and real-time streaming, ensuring data consistency via atomic read-modify-write protocols.Implemented an LRU caching layer and hash maps to optimize metadata retrieval speeds for frequent file access.Designed asynchronous replication and heartbeat monitoring to maintain data availability and persistence across storage nodes.	

ACHIEVEMENTS

Dean's List III <i>Awarded to top 15% students based on semester GPA.</i>	IIIT Hyderabad <i>Monsoon 2024</i>
Merit's List <i>Awarded to top 20% students based on semester GPA.</i>	IIIT Hyderabad <i>Spring 2025</i>
JEE Mains - AIR 3000 <i>Secured 99.8th percentile in JEE Mains examination, ranking in the top 0.2%.</i>	<i>April 2024</i>
JEE Advanced - AIR 5423 <i>Secured All India Rank of 5423 in JEE Advanced examination.</i>	<i>May 2025</i>
Certificate of Merit <i>Awarded for achieving 100/100 scores in Mathematics (Class X and XII) and Science (Class X).</i>	CBSE

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, HTML/CSS, JavaScript
Frameworks: Node.js, FastAPI
Developer Tools: Git, VS Code
Libraries: NumPy, Matplotlib