

# Sarah Roomi

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## EDUCATION

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

## PROJECTS

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

## ACHIEVEMENTS

<b>Dean's List III</b> <i>Awarded to top 15% students based on semester GPA.</i>	IIIT Hyderabad Monsoon 2024
<b>Merit's List</b> <i>Awarded to top 20% students based on semester GPA.</i>	IIIT Hyderabad Spring 2025
<b>JEE Mains - AIR 3000</b> <i>Secured 99.8th percentile in JEE Mains examination, ranking in the top 0.2%.</i>	April 2024
<b>JEE Advanced - AIR 5423</b> <i>Secured All India Rank of 5423 in JEE Advanced examination.</i>	May 2025
<b>Certificate of Merit</b> <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