

Sai Kapil Bharadwaj

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OBJECTIVE

- Sophomore currently pursuing B.Tech+MS by Research(2029) in Computer Science at IIIT Hyderabad. Currently interested in exploring interdisciplinary end-to-end research areas and gaining a strong understanding of fundamentals in CS and Mathematics.

EDUCATION

International Institute of Information Technology

Hyderabad, India

B.Tech+MS By Research in Computer Science

August 2024 - May 2029

- GPA(Sem1): 8.17/10
- GPA(Sem2): 8.78/10

GR International School

Bangalore, India

Secondary Education (CBSE 11th and 12th)

March 2024

- Grade: 96.8%

The Indian Public School

Chennai, India

Primary Education (IGCSE 7th to 10th)

November 2021

- GPA: 9.58/10

EXPERIENCE

Comcast

May 2025 - July 2025

AI/ML Intern

- Was part of the AI/ML team at Comcast India Engineering Center, Chennai for 10 weeks. Worked on agentic AI applications in the area of Web-UI agents (similar to openAI's ChatGPT Atlas / Perplexity's Comet, with an emphasis on Human In the Loop).

PROJECTS

QIDK – SLM Benchmarking for Sustainability

August 2025 – December 2025

Embedded Systems Workshop Course Project

- Explored Qualcomm Innovation Development Kit (QIDK) to evaluate the feasibility of deploying Small Language Models (SLMs) on edge-AI hardware.
- Investigated how various SLMs perform on different workloads (Q&A, RAG, Summarization) with emphasis on sustainability.
- **Tools:** QIDK, QNN SDKs, llama.cpp, Code Carbon
- **Repository:** github.com/StatewideOwl3/slm-benchmarking-qidk

Network File System

October 2025 – November 2025

Operating Systems Course Project

- Built a basic networked file system from scratch.
- Handled concurrency and consistency challenges under multiple client accesses.
- **Tools:** C, Socket Programming
- **Repository:** github.com/StatewideOwl3/network-file-system

Terminal Based Wireshark

September 2025 – October 2025

Operating Systems Course Project

- Built a terminal based packet sniffer, similar to wireshark.
- Supports filtering packets based on protocols across layers in the OSI model.
- **Tools:** C, Socket Programming
- **Repository:** github.com/StatewideOwl3/terminal-based-wireshark

SKILLS

- As a result of coursework and corporate experience over the last year, I have been introduced to and worked with the following technologies:
- **Programming Languages:** C, C++, Python, Bash, JS
- **Web Technologies:** HTML, CSS, JavaScript, Node.js
- **Database Systems:** MySQL, MongoDB(No-SQL)
- **Version Control:** Git
- **Mathematical & Statistical Tools:** NumPy, Matplotlib
- **Other Tools & Technologies:** MQTT, oneM2M, Thingspeak, REST API, Postman, Flask