

Harshit Rautela

🏠 117, Bell Road, Jaligaon, Subhash Nagar, Dehradun, Uttarakhand 248002

✉️ harshitrautela3682@gmail.com | 📞 +91 8958254050 | 📺 harshit3682 | 🌐 harshit3682

Profile Summary

Highly motivated Computer Science student with a strong foundation in **C++**, **Data Structures**, and **Algorithms**. Passionate about building high-performance, low-latency systems, with hands-on experience in concurrent programming and operating system. Eager to contribute to challenging projects in a fast-paced environment.

ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Aug, 2022 - Present	B.Tech in Computer Science	Graphic Era Hill University, Dehradun	8.1
2022	Senior Secondary (C.B.S.E)	P.P.J. Saraswati Vihar, Nainital	91.4%
2020	Secondary (C.B.S.E)	P.P.J. Saraswati Vihar, Nainital	88.4%

PROJECTS

- **Thread Library** :Developed a low-level Thread Library in C/C++ on Linux, implementing core functionalities (create, delete, suspend, resume, run, sleep) and thread status monitoring. Focused on understanding underlying OS threading primitives and synchronization mechanisms to manage concurrency directly and efficiently.
- **Car Rental System** : Designed and implemented an object-oriented Car Rental System in C++ , demonstrating strong grasp of OOPS principles (Polymorphism, Encapsulation). Focused on efficient data management for user and vehicle allocation.
- **Employee Attrition Prediction Project** (Aug'10, 2024 - Dec'10, 2024) : Developed a machine learning project using python which can predict the voluntary attrition of an employee in a institution such that the firm is ready for such consequences.
- **Speech Recognition System** : Developed a speech to text and text to speech model using python and a graphical user interface too.
- **Traffic Sign Detection system** (Nov'5, 2024 - Jan'25, 2025):Designed a traffic sign detection system using CNN. It can identify signs on the roads like speed limit, stop etc.

Technical Skills:

- **Programming Languages:** C++ , C, Javascript, Python, Java, MySQL
- **Systems/Tools:** Git, Linux, GDB, Makefile, GitHub
- **Machine Learning Tools:** Tensorflow, Keras, scikit-learn.
- **Cloud & DevOps:** Docker, Kubernetes, CI/CD with Jenkins, AWS
- **IDE:** Visual Studio Code, IntelliJ IDEA, Eclipse, Code::Blocks
- **Concepts & Paradigms:** Data Structures & Algorithms, Object-Oriented Programming, Multithreading, Operating System, Computer Networks

Scholastic Achievement

- **Hackathon** - Participated in a competitive overnight Hackathon, securing a top-performer position for developing a responsive Facebook clone. Demonstrated rapid prototyping, teamwork, and problem-solving under pressure.
- **Leetcode:** A contest rating of 1400+ in leetcode and solve more than 300 questions which enhanced my knowledge of Data Structures and Algorithms.

Certifications

- **AWS Cloud Quest: Cloud Practitioner** Issue Date: Mar 13,2025
- **NPTEL - Programming in JAVA:** Issue Date: Oct,2023