Anahita Sharma

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Professional Summary

Computer Science undergraduate specializing in backend systems, operating systems, and algorithmic problem solving. Experienced in building system-level software, scalable APIs, and secure applications. Solved 800+ DSA problems and ranked in the top 8% on LeetCode. Seeking Software Engineering Intern roles.

Education

National Institute of Technology, Srinagar — Srinagar, J&K
B.Tech in Computer Science and Engineering — **2023 − 2027**
CGPA: **9.18 / 10**

Projects

Custom Unix-like Shell — GitHub — C, POSIX, Linux / Windows (MSYS2)
- Built a Unix-like command-line shell implementing POSIX process control, environment variable handling, and secure command execution.
- Implemented PATH-based command resolution by parsing environment variables and validating executables using `access(X_OK)`.
- Designed a robust execution pipeline using `fork`, `execve`, and inherited environments with careful memory and error management.

Video Streaming Backend System — GitHub — Node.js, Express.js, MongoDB
- Designed and built scalable REST APIs for authentication, content delivery, and session management.
- Implemented JWT-based authentication and role-based access control (RBAC) for secure user and admin operations.
- Modeled efficient MongoDB schemas and modular service layers to support growing user activity.

Gmail to Google Sheets Automation — GitHub — Python, Google APIs, OAuth 2.0
- Built an automated pipeline to extract unread Gmail messages and sync them into structured Google Sheets.
- Implemented OAuth 2.0 authentication, retry logic, logging, and duplicate prevention using label-based state tracking.

Gamified Mood Tracker Dashboard — GitHub — React, Node.js, MongoDB
- Developed a full-stack application with JWT-based authentication, protected routes, and backend-enforced daily activity tracking.
- Designed gamification systems (XP, levels, streaks) with consistent frontend–backend state synchronization.

Experience

Defence Research and Development Organisation (DRDO) — Delhi, India
Research Intern — Office of Cyber — **Dec 2025 − Feb 2026**
- Worked on secure system-level software analysis, focusing on Windows internals and low-level program execution behavior.
- Studied executable formats (PE), memory usage, and runtime behavior to support cybersecurity research and technical documentation.

Skills

Programming Languages: C, Java, Python, JavaScript (ES6+), C++
Core CS: Data Structures, Algorithms, Operating Systems, Memory Management
Backend / Systems: REST APIs, Node.js, Express.js, POSIX, fork/exec, JWT, OAuth 2.0
Databases: MongoDB, MySQL
Tools: Git, Postman, Linux

Achievements

- Solved 800+ DSA problems; LeetCode Rating 1796 (Top 7.7%) — LeetCode, GeeksforGeeks
- Flipkart GRiD 7.0 — National Semi-Finalist (2025)
- Machine Learning Specialization — Andrew Ng (Coursera) [In Progress]