

Gagan Bansal

Chandigarh, India — bansalgagan2004@gmail.com — +91 9996892070
LinkedIn — GitHub — LeetCode — Portfolio

Education

Chitkara University , Chandigarh B.E. in Computer Science	Oct 2022 – May 2026 <i>CGPA: 9.34</i>
Allen Career Institute , Kota Senior Secondary (Non-Medical)	Apr 2020 – Jun 2022

Technical Skills

Languages: C, C++, Rust
Web + Backend: React.js, Node.js, Express.js, REST APIs, SOAP, MongoDB, SQL
CS Fundamentals: Data Structures and Algorithms, OOP, OS, CN, DBMS, System Design
Tools and Platforms: Git, GitHub, VS Code, Jupyter, Linux, macOS, AWS (Basic)
Soft Skills: Problem Ownership, Structured Thinking, Cross-Functional Communication

Experience

Research and Development Intern , Quark <i>Chandigarh</i>	Jan 2026 – Present
<ul style="list-style-type: none">Working on Quark Publishing Platform (QPP), contributing to server-side systems using C++, Objective-C, Perl, and SOAP-based services in a large, long-lived codebase.Analyzing and updating legacy server code to support Apple Silicon (ARM) architecture, involving platform-specific dependencies and build pipeline understanding.Contributing to the integration between QuarkXPress Server and QPP, focusing on request handling, data flow, and maintaining backward compatibility across publishing pipelines.	

Projects

KVMemo – Multithreaded In-Memory Key-Value Store – <i>C++</i>	GitHub
<ul style="list-style-type: none">Designed and implemented a high-performance in-memory key-value store in modern C++ supporting concurrent client access via TCP.Built a thread-pool architecture with task scheduling and synchronization using std::mutex, std::sharedmutex, and atomic counters to optimize read-heavy workloads.Developed runtime metrics collection (QPS, latency, hit/miss ratio, active connections) for observability and performance analysis.	
FlarePP – <i>MERN</i>	GitHub
<ul style="list-style-type: none">Built a role-based content collaboration platform enabling creators to upload footage, assign editors, and directly publish to YouTube using the YouTube Data API.Implemented project workflows with revision requests, improving collaboration and content delivery efficiency for creators and editors.	
CDS Library – <i>C</i>	GitHub
<ul style="list-style-type: none">Built modular header files for String, Stack, and Linked List with reusable C interfaces.Improved memory management and reduced redundancy using macros and pointer abstraction.	

Achievements

- Solved 1200+ Data Structures and Algorithms problems across LeetCode, GFG, and CodeChef.
- Achieved LeetCode Contest Rating of **1618**.
- Selected for UCA Batch at Chitkara University – Top 3% out of 2500+ students.
- Finalist** – Shopclues Smart Cataloging Hackathon (Top 5 of 70+ teams), Chandigarh, 2024.