

Sachin Kumar

+91-8935904820 - [Portfolio](#) - sachin89359@gmail.com - linkedin.com/in/startwithsachin - github.com/sachin8935

EDUCATION

Chandigarh University

B.E - CSE

7.75 CGPA

2021 - 2025

TECHNICAL SKILLS

Database Platform: MySQL, Firebase Firestore, MongoDB, PostgreSQL

Tech Stack: C++, Python, JAVA, MERN, SocketIO, WebSocket

Core Concepts: Operating Systems, Computer Networks, DBMS

EXPERIENCE

Backend Developer Intern

CAC, Chandigarh, India

Nov 23 - Jan 24

- Solved inefficiencies in event coordination by developing a Node.js backend, enabling seamless access and registration for over **10,000 students**.
- Enhanced **real-time communication** via RESTful APIs, ensuring timely event updates for students and increasing participant tracking efficiency by 30%.
- Built **ARIMA-based analytics tool** for precise tracking of participants, informing strategic resource allocation decisions.

PROJECTS

Real-Time Collaborative Coding Platform

[Github](#)

MERN Stack+ AI

- Architected a scalable platform that supports live code execution and simultaneous editing by over 10,000 active users, **ensuring <50ms latency** across distributed teams globally.
- Developed an innovative **conflict-resolution algorithm** for real-time code synchronization, minimizing merge conflicts by 80% in high-concurrency environments.
- Implemented **AI-powered language detection** and intelligent syntax highlighting to automatically optimize the coding environment, improving developer accuracy and reducing error rates by 30%.

EduConnect

[Github](#)

MERN Stack

- Built EduConnect, an online education platform capable of handling over **5,000 concurrent users**, enabling seamless course hosting for instructors and real-time purchasing of live classes by students.
- Fortified application security with **JWT-based user authentication**, mitigating XSS by 95%, and preventing NoSQL injection attacks, achieving 100% compliance with security standards.

File Zipper

[Github](#)

CPP+ Huffman Coding

- Designed and implemented a file compression tool using **Huffman coding**, achieving an average 60-70% reduction in file size and a 30% faster compression time compared to standard tools.
- Engineered a scalable solution capable of efficiently compressing files up to 2GB without performance degradation, demonstrating **advanced algorithmic design** and optimization skills.

API Inventory Management

[Github](#)

Database + Cybersecurity

- Centralized **API security platform** integrated with 500+ APIs, enabling real-time monitoring and reducing security incidents by 30%.
- Automated security checks in CI/CD pipeline decreased API vulnerabilities by 40%, leveraging **OWASP ZAP** and custom scripts.
- Designed a scalable **Grafana dashboard**, boosting API security visibility by 50% and streamlining issue resolution.

ACHIEVEMENTS

[LINK](#)

- 5G Vimarsh:** Secured 2nd Position in the 5G Vimarsh Hackathon, a nationwide competition held at IIT Madras.
- Flipkart Grid 6.0::** Secured a **finalist spot**, Recognized for delivering innovative tech solutions in a competitive arena.
- Codechef:** Clinched global rank **98 among 11,347 participants** in CodeChef June Long Two 2022.
- Leetcode:** Earned a global rank of **1849 out of 31,928** participants in Biweekly Contest 126