

# AASTHA BAJPAI



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[Aastha Bajpai](#)



[HackerRank](#)

MCA Student | Software Development Intern

## SUMMARY

MCA student at NIT Jamshedpur with strong skills in C, C++, Java, Python, DSA, OOPs, and MySQL. Experienced in building practical projects and actively contributing to tech and entrepreneurship clubs, seeking an internship to apply software development and problem-solving skills in real-world projects.

## TECHNICAL SKILLS

- Programming Languages: C, C++, Java, Python
- Web Technologies: HTML, CSS, JavaScript
- Database Management: MySQL (queries, schema design)
- Core CS Concepts: Data Structures & Algorithms, Object-Oriented Programming, OS, DBMS, C++ STL
- Developer Tools: VS Code, Git, GitHub
- Software Development Practices: File handling, input validation, version control, debugging

## PROJECTS

### Online Book Exchange Platform | C++, File Handling

- Developed a menu-driven Online Book Exchange Platform in C++ with features like book listing, title search, and swap requests, backed by persistent data storage using text files for maintaining records across sessions.
- Ensured clean modular code using classes, file I/O, and structured logic, while integrating strong input validation and error-handling mechanisms to deliver a reliable and user-friendly console application.

### DSA Mini-Programs Collection | C++ / Java

- Implemented core algorithms including sorting, searching, stacks, queues, and trees.
- Optimized solutions using time-complexity analysis and STL/Java Collections.

## EDUCATION

### Master of Computer Applications (MCA) | CGPA: 7.33

National Institute of Technology (NIT) Jamshedpur

2024 - Present

### Bachelor of Computer Applications (BCA)

Chhatrapati Shahu Ji Maharaj University (CSJMU)

2019 – 2022

### Class 12 | CBSE

Guru Nanak Public Sr. Sec. School, Kanpur

2018 – 2019

### Class 10 | CBSE

Guru Nanak Public Sr. Sec. School, Kanpur

2016 – 2017

## ACHIEVEMENTS & CERTIFICATIONS

### HackerRank

- Gold Badge:** C++, SQL | **Silver Badge:** Problem Solving
- Certifications:** Problem Solving, Java, Python (Basic), SQL (Basic & Intermediate)

### Workshops

- Data Science & ML (CSJMU Kanpur, 2022):** Data preprocessing, ML basics, model building, hands-on practice.
- Skill Enhancement in Mathematics (CSJMU, 2022):** Problem-solving, logical reasoning, quantitative skills.

## CO-CURRICULAR ACTIVITIES

- Technical Coordinator** | Society of Computer Science & Engineering, NIT Jamshedpur | Feb 2025 – Present
- Creative Content Coordinator** | E-Cell, NIT Jamshedpur | Feb 2025 – Present