

Gopal Jee Srivastava

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PROFESSIONAL SUMMARY

Aspiring software developer with a strong academic background in Computer Science Engineering, passionate about building innovative solutions to real-world challenges. Proficient in Python, C++, Java, and database management, compilers with hands-on experience in systems-level and research-oriented projects. Eager to leverage technical skills and a collaborative mindset to contribute meaningfully to a dynamic engineering team.

EDUCATION

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|---|---|
| Krishna Institute of Technology
<i>Bachelor of Technology in Computer Science and Engineering</i> <ul style="list-style-type: none">Aggregate CGPA: 8.1 (as of 5th Semester)Latest Semester SGPA: 7.1 (5th Semester) | Kanpur, Uttar Pradesh, India
<i>Oct. 2023 – May 2027</i> |
| Lions School, Mirzapur
<i>Higher Secondary Education (Class XII)</i> <ul style="list-style-type: none">Percentage: 80% | Mirzapur, Uttar Pradesh, India
<i>June 2022</i> |
| Lions School, Mirzapur
<i>Secondary Education (Class X)</i> <ul style="list-style-type: none">Percentage: 85% | Mirzapur, Uttar Pradesh, India
<i>May 2020</i> |

EXPERIENCE

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|---|--|
| Project Assistant (Remote)
<i>Physics Department, Amity Institute of Applied Sciences</i> <ul style="list-style-type: none">Designed and deployed a live Elastic Moduli Calculator web application to support research in solid-state materials for the Applied Physics department.Automated multi-parameter calculations, significantly reducing the time faculty spent on manual computations and improving research workflow efficiency.Developed an online Solid State Velocity Calculator achieving a precision level of up to 10^{-7}, used for research in applied and solid-state physics. | March 2025 – April 2025
<i>Noida, India</i> |
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PROJECTS

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|--|---------------------|
| Compiler <i>C++</i> <i>In Development</i> <ul style="list-style-type: none">Designing and building a compiler from scratch in C++ to deepen understanding of language processing, parsing, and code generation.Implementing core compiler phases including lexical analysis, syntax parsing, semantic analysis, and intermediate code generation. | Mar. 2026 – Present |
| Database Server <i>C++</i> , <i>MySQL</i> <i>In Development</i> <ul style="list-style-type: none">Building a custom version of MySQL Workbench from scratch using C++, aiming to create a fully functional SQL script runner.Designed to provide a deeper understanding of the internal functionality of typical SQL server engines like MySQL Workbench. | Nov. 2025 – Present |
| Elastic Moduli Calculator <i>Python</i> , <i>Web Technologies</i> <ul style="list-style-type: none">Built and deployed a live web-based calculator for the Department of Applied Physics, Amity Institute of Applied Sciences, Noida.Automated multi-parameter calculations for solid-state materials, reducing manual computation time for faculty and supporting ongoing research workflows.Designed to handle diverse input conditions with reliability and precision. | Apr. 2025 |

Solid State Velocity Calculator | *Web Technologies*

Apr. 2025

- Developed an online velocity calculator for the Physics Department at the Amity Institute of Applied Sciences, Noida, used in research applications.
- Designed and implemented based on faculty requirements, achieving a precision level of up to 10^{-7} .

Movie Ticket Booking System | *Python, Tkinter, MySQL*

2024

- Built a full-featured GUI-based desktop application for booking movie tickets with seat selection and payment flow.
- Integrated MySQL backend for persistent storage of booking records, user data, and movie schedules.
- Implemented CRUD operations and relational database design with normalized tables.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript

Web Technologies: HTML, CSS, JavaScript

Databases: MySQL, Database Design, CRUD Operations

Tools & Platforms: Git, GitHub, Vercel, VS Code

Core Concepts: Object-Oriented Programming (OOP), Data Structures, Algorithms, DBMS, Compiler Design

Soft Skills: Strategic Issue Analysis, Collaborative Teamwork, Clear Verbal & Written Communication, Attention to Detail

CERTIFICATIONS & TRAINING

Advanced Java Training

Sept. 2025 – Dec. 2025

Certified Course

- Acquired knowledge of contemporary Java practices for building reliable and scalable enterprise applications.
- Engaged in coursework focused on Java-based application development and design patterns.

OOPs in C++ Training

Sept. 2024 – Feb. 2025

Certified Course

- Completed intensive training on the core pillars of Object-Oriented Programming (Encapsulation, Inheritance, Polymorphism, Abstraction).
- Gained hands-on experience translating design patterns into practical C++ implementations.

LANGUAGES

English: Professional Proficiency

Hindi: Native

French: Basic