

# Alok Kumar

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## Summary

Enthusiastic and detail-oriented B.Tech Computer Science student with a strong foundation in Mathematics and Science. Passionate about academic content development, educational technology, and enhancing learning materials for students. Seeking an opportunity at SpeEdLabs to leverage my analytical and content development skills in the EdTech industry.

## Education

<b>National Institute Of Technology Srinagar</b> <i>Bachelor Of Technology In Computer Science (CGPA: 7.968)</i>	2023 – 2027 <i>Hazratbal, Srinagar, Jammu &amp; Kashmir 190006</i>
<b>Government Senior Secondary School Neoli Khurd</b> <i>12th class (Percentage: 82.6%)</i>	2021 – 2022 <i>Neoli Khurd, Hisar, Haryana, India</i>
<b>Government Senior Secondary School Nagina</b> <i>10th class (percentage: 94%)</i>	2019 – 2020 <i>Nagina, Nuh, Haryana, India</i>

## Skills

**Mathematics & Science Proficiency:** Strong understanding of Mathematics & Science (NCERT & State Board syllabus)

**Conceptual Understanding:** Concept Explanation & Problem-Solving

**Educational Technology:** Familiarity with AI tools for content enhancement

**Analytical Skills:** Strong analytical & logical reasoning abilities

**Soft Skills:** Excellent communication & teamwork skills

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

**Frameworks, Databases & Libraries:** Bootstrap, ReactJs, NodeJs, Express, MongoDB, MySQL

**Web Services:** RESTful APIs

**Deployment & Containerization:** Docker, Podman, Kubernetes, Helm, CI/CD

**IDEs & Tools:** VS Code, Git, JIRA, Postman

**Core Competencies:** Data Structures Algorithms, System Design, OOPS, Design Patterns, Microservices Development, Monolithic to Microservices Migration, Centralized Configuration & Logging, Code Optimization & Performance Tuning, Unit & Integration Testing, Troubleshooting & Debugging, Data Security Practices

**Soft Skills:** Problem-Solving, Team Collaboration, Adaptability, Time Management, Customer Orientation

## Projects

### Chat Application

*Full-Stack Web Development (MERN)*

- Developed a real-time chat application using **React.js**, **Node.js**, and **MongoDB**.
- Integrated **WebSockets (Socket.io)** for instant messaging functionality.
- Implemented user authentication using **JWT tokens** for secure login/logout.
- Designed a responsive UI with **React.js** and **Tailwind CSS**.
- Deployed frontend on **Netlify** and backend on **Render/Heroku**.
- Skills: **React.js**, **Node.js**, **Express.js**, **MongoDB**, **WebSockets**, **JWT**, **Tailwind CSS**

### Portfolio Website

*Full-Stack Web Development - MERN*

- Developed a responsive portfolio website using React.js, Node.js, and MongoDB to showcase projects and skills.
- Integrated a RESTful API to handle form submissions and manage inquiries.
- Designed a dynamic project gallery with data fetched from a MongoDB database and deployed using Netlify (frontend) and Heroku (backend).
- Skills: HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB