

# Prashant Kumar

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## Summary

Computer Science student with strong problem-solving skills (200+ LeetCode DSA problems) and hands-on experience in full-stack web development. Proficient in **C/C++, JavaScript, Node.js, Express, SQL, and MongoDB** with a solid foundation in software engineering.

## Education

<b>Galgotias University, Greater Noida</b> B.Tech. in Computer Science and Engineering	(2022 – 2026) 8.61/10 CGPA
<b>Holy Convent Sr. Sec School, New Delhi</b> 12th – Science	(2020 – 2021) Percentage: 78.6%

## Technical Skills

- Languages:** C/C++, JavaScript
- Frontend:** HTML, CSS
- Backend:** Node.js, Express
- Database:** SQL, MongoDB, Mongoose
- Tools:** VS Code, Git, GitHub, Postman

## Projects

<b>Full Stack User Portal</b>	August 2025 – Present
<ul style="list-style-type: none"><li><b>Developed</b> a modular backend using <b>Node.js, MongoDB, and Mongoose</b>, structuring well for scalability.</li><li><b>Implemented</b> secure user authentication with <b>JWT</b> and <b>bcrypt</b>, ensuring encrypted login and session.</li><li><b>Built &amp; tested</b> 10+ <b>RESTful APIs</b> for CRUD operations and file uploads using <b>Cloudinary</b> and Postman.</li><li><b>Streamlined</b> development with <b>nodemon</b> (auto reload) and <b>Prettier</b> (code formatting) to boost code quality.</li></ul>	
<b>Mark and Sweep Garbage Collector</b>	May – June 2025
<ul style="list-style-type: none"><li>Implemented a full-featured garbage collector in <b>C</b> to automate memory management.</li><li>Developed precise memory tracing mechanisms : implemented <b>mark()</b> to recursively traverse root pointers (<b>s</b>, and <b>sweep()</b> to identify and reclaim unreachable object.</li><li>Models a virtual machine (VM) with stack frames, dynamic object allocation, and automatic memory cleanup.</li></ul>	
<b>Weather App</b>	March - April 2025
<ul style="list-style-type: none"><li>Developed a fully responsive weather web application using <b>HTML, CSS, and JavaScript</b>.</li><li>Integrated OpenWeatherMap API to fetch real-time weather data based on user-input cities.</li><li>Displayed weather metrics such as temperature, humidity, wind speed, and weather conditions.</li><li>Implemented a toggleable dark mode to enhance user experience and accessibility.</li></ul>	

## Achievements & Certifications

- Solved **200+** DSA problems from Leetcode, building problem solving skills.
- Ranked in **top 5% out of 5000** candidates in Software Engineering course exam from NPTEL by **IIT Kharagpur**.
- Learned the basics of relational databases, SQL queries, data manipulation using **Oracle SQL** environment.