

# Prashant Kumar

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## Summary

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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

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

## Technical Skills

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

## Projects

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| <b>Full Stack User Portal</b> 🚀  | <b>August 2025 – Present</b> |
| <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> 🚀  | <b>May – June 2025</b>       |
| <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 <code>mark()</code> to recursively traverse root pointers (s, and <code>sweep()</code> 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> 🚀   | <b>March - April 2025</b>    |
| <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

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- 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.