

# PIYUSH AGGARWAL

## Aspiring Software Developer

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### Professional Summary

I am an aspiring software developer with strong capabilities in both front-end and back-end development. My expertise lies in using JavaScript frameworks such as React and Node.js to build scalable applications. With a solid foundation in data structures and algorithms, I enjoy solving complex problems and learning through hands-on projects.

### Education

<b>MAIT, Maharaja Agrasen Institute Of Technology</b>	Delhi
B.Tech (CSE-DS)-GPA:8.8/10	08/2024 - 05/2028
<b>St. Lawrence Public School</b>	Dilshad Garden, Delhi
10th (CBSE Board)-92%	04/2020 - 04/2021
<b>Lovely Public Sr. Sec. School</b>	PD.Vihar, Delhi
12th (CBSE Board)-87%	04/2022 - 04/2023

### Skills

JavaScript · React · HTML · CSS · Data Structures · C/C++ · Node.js · Express.js · WebSockets · Socket.IO · MongoDB · SQL · Next.js · TypeScript · GitHub · Postman · PostgreSQL · Canva · Redux · Redux Toolkit

### Projects

<b>Real-Time Collaborative Whiteboard</b>	01/2023 - 04/2023
A digital canvas platform allowing users to draw, brainstorm, and share ideas instantly	
• Engineered a real-time collaborative drawing tool using WebSockets, enabling multi-user interaction on a shared canvas with sub-100ms latency	
• Implemented complex state management for geometric shapes and free-hand drawing using Canvas API, improving rendering efficiency by 15%	
• Integrated PostgreSQL to persist user sessions and board metadata, ensuring seamless data recovery upon reconnection	
<b>Learning Management System (LMS)</b>	05/2023 - 08/2023
Learning Management System (LMS) using the MERN stack with enhanced user and admin management	
• Developed a scalable educational platform with role-based access control (RBAC) for Admins and Students	
• Integrated the Razorpay API for secure payment processing and Cloudinary for automated media optimization and cloud storage	
• Managed global application state using Redux Toolkit, reducing prop-drilling and improving component re-render performance by 25%	

### Key Achievements

 <b>Code X Hackathon Finalist</b> Led a team of 4 to the finals (Top 10 out of 100+ teams) with 'Eco Health', a carbon-tracking PWA	 <b>Academic Excellence</b> Secured a CGPA of 8.8 in the first year	 <b>Data Structures &amp; Algorithms Achievement</b> Solved 100+ problems across LeetCode using C++
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### Interests

 <b>Full Stack Web Development</b>	 <b>Data Structures And Algorithm</b>
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