

AYUSH CHAVAN

Pune, Maharashtra

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Education

Vishwakarma Institute of Technology CGPA: 8.58	09 2023 - 06 2027
B.Tech - Computer Science and Engineering(Artificial Intelligence)	Pune, India
KKW College, Pimpalgaon Baswant 90.83%	2021 - 2023
Higher Secondary Certificate (HSC) - Science	Nashik, India
Adarsh English Medium School, Pimpalgaon Baswant 91.40%	2009 - 2021
Secondary School Certificate (SSC)	Nashik, India

Projects

God's Hand (Rubik's Cube Solver) C++ , CMake	github
<ul style="list-style-type: none">Achieved a solving time of under 1 second for a Rubik's Cube scrambled 14 times using the Korf IDA* Algorithm.Reduced memory usage by 11.11% through efficient cube state representation and bitwise data encoding.Accelerated runtime by up to 73% using iterative deepening with heuristic pruning, outperforming Dijkstra in optimal shortest-path search.	
DevFlow - AI-Powered Online IDE Next.js, Docker, Node.js, Gemini AI	github
<ul style="list-style-type: none">Multi-language IDE for JavaScript, Python, C++, Java with Gemini AI for code assistance.Engineered Docker-based isolation with resource limits (256MB memory, 50% CPU, 10s timeout) per execution, achieving 0% crash rate and complete security against malicious code.Implemented queue management handling 10 concurrent executions and 200+ requests with 100% stability.	
Real-Time Collaborative Whiteboard Next.js, TypeScript, Liveblocks	Live github
<ul style="list-style-type: none">Developed a multi-user whiteboard enabling instant shared drawing, live cursor presence, and undo/redo history.Implemented a robust toolset featuring pen, eraser, geometric shapes, and text notes, coupled with smooth zoom and pan functionality to create a versatile and intuitive visual collaboration workspace.Integrated Liveblocks for real-time sync, Convex for backend persistence, and Clerk for secure authentication.	
Blogify - Comprehensive Blogging Platform Node.js, Express, MongoDB	Live github
<ul style="list-style-type: none">Designed an intuitive and secure platform for crafting, managing, and engaging with blogs.Built using MVC architecture, employing EJS and Bootstrap for a responsive UI.Implemented JWT-based authentication and custom encryption, with Firebase for media handling.	

Honors & Awards

- ICPC Asia West Regionalist (2025)**: Qualified for prestigious regional level of the programming contest.
- First Runner-up** among **450+ teams** at InC Pradnya 2025 (Global level CP Contest) held at PICT, Pune.
- Secured **1st Position** in Prelims and **4th Position** in Onsite Finals at **WCPC 2025** (State Level Competitive Programming Contest) at Walchand College.
- Achieved top national ranks: **AIR 90, 104, & 141** in LeetCode Biweekly Contests 155,161 and 160.
- Secured **Global Rank 62** and **Global Rank 90** in CodeChef Starters 132 and 157.
- Solved **1500+** algorithmic problems and achieved **Specialist(Max Rating : 1587)** title on Codeforces.
- Guardian** on LeetCode (**Max Rating : 2143**), among **Top 1.2% globally** and solved **700+ problems**.
- 4-Star Coder** on CodeChef (**Max Rating: 1817**).
- Solved more than **2500 problems** on Data Structures and Algorithms across various coding platforms.

Technical skills

Languages & Tools: C/C++, JavaScript, SQL, Java, TypeScript, Postman, CMake, Git, GitHub, Clerk, Convex, MongoDB

Frameworks: Node.js, Express.js, React.js, Next.js

Coursework: Data Structures & Algorithms, Web Development, Database Management Systems, Computer Networks, Operating Systems, Competitive Programming, Object-Oriented Programming

Coding Profiles

Codeforces LeetCode CodeChef HackerRank SPOJ