

Ashwani Singh

Mirzapur, Uttar Pradesh 231001

✉ ashwanisingh1304@gmail.com |! +91 7268878589 | [GitHub](#) | [LinkedIn](#)

Education

VIT Bhopal University

B. Tech in Computer Science (Core) | 7.41 CGPA

| July 2021 – August 2025

Daffodils Public School

PCM with Computer Science | 8.4 CGPA

| June 2021

Certifications & Courses

- Applied Machine Learning in Python | Issued: Dec 2022 | Credential ID: 4L3KE682J6BC
 - NPTEL: Cloud Computing | Jan 2024 – Apr 2024 | Credential ID: NPTEL24CS17S45290225130418936
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Technical Skills

- Programming Languages: Java, JavaScript
 - Technologies: React.js, MongoDB, Node.js, Next.js, Express.js
 - Concepts: Web Development, Git & GitHub, Linux, Docker
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Projects

Chess Matchmaking and Gameplay Platform

Personal Project | Tech Stack: React, Node.js, TypeScript, WebSocket's, Redis, PostgreSQL

- Built a real-time chess platform supporting user sign-ups, matchmaking, and gameplay.
- Implemented WebSocket servers for seamless real-time updates during matches.
- Used Redis for efficient move queuing and PostgreSQL for storing user and game data.
- Designed a dynamic rating system using standard algorithms.
- Integrated Google/GitHub OAuth for secure login and created comprehensive contributor documentation.

Smart Waste Management System

| August 2024 – June 2024

College Project | Tech Stack: React, Node.js, TypeScript, PostgreSQL

- Implemented real-time monitoring and automated alerts system, reducing response times by 50%.
 - Optimized waste collection routes and schedules strategies, resulting in a 30% efficiency gain.
 - Utilized data-driven decision-making, reducing 20% waste generation while optimizing processes.
 - Applied IoT sensors for more accurate tracking and waste levels, data accuracy increased by 40%.
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Responsibilities & Achievements

- Graphic Designer, CrazyVITians Graphic Team | Dec 2021
 - Contributed to Photoshop, logo design, and content creation for campus events.
 - Runner-up in Handball.
 - Participated in VIT Bhopal's Gamers Arena as a gaming enthusiast.
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Languages

- English: Fluent
- Hindi: Fluent