

Ashirwad Singh

+91-8421933430 | singhashirwad2003@gmail.com | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Portfolio](#)

EDUCATION

VIT Bhopal University

B.Tech in Computer Science (Cyber Security and Digital Forensics) **CGPA: 8.52**

Kothrikalan, MP

2022 – 2026

Reliance Foundation

Class XII (CBSE) **Percentage: 91.2%**

2021

Yak Public School

Class X (CBSE) **Percentage: 91.8%**

2019

PROJECTS

RepoSense [GitHub]

Summer 2025

- Designed a RAG pipeline with **LangChain** and **Google Gemini AI**, exposing a real-time QA interface within a **Next.js 15** application.
- Automated meeting transcription and summarization via **Assembly AI** webhooks, delivering speaker-labeled insights in under 30 seconds.
- Orchestrated **Stripe** credit-based access, onboarding 10+ developers on a free-tier model and driving a 40% paid upgrade rate.
- Optimized document chunking and vector embedding workflows to reduce query latency by 50% and support 1,000+ concurrent sessions.

Dev-Rooms [GitHub]

Summer 2025

- Architected a tag-based room discovery service with **Next.js** and **Drizzle ORM** on **NeonDB**, enabling 15+ concurrent user sessions.
- Powered real-time peer-to-peer screen/code sharing via **GetStream React SDK**, sustaining 95% uptime and sub-100ms latency.
- Implemented secure session management and role enforcement with **NextAuth.js** and **JWT**, handling 50+ developer accounts.

Chess Master [GitHub]

Winter 2025

- Developed a real-time multiplayer chess engine with **Socket.IO**, **Node.js**, and **Express**, achieving 99% event delivery reliability.
- Validated moves via **chess.js** and enabled Spectator Mode with live state synchronization for 100+ concurrent games.
- Orchestrated move history tracking with back/forward navigation and persisted session state across refreshes for 95% game retention.

Interactive Portfolio [GitHub]

Winter 2025

- Built a **reusable text-reveal** animation component featuring explosion-style image reveals on scroll and hover effects using **GSAP** and **Framer Motion**.
- Integrated **Lenis scroll** engine with **GSAP** and **Framer Motion** to deliver seamless navigation and synchronized animations.

TECHNICAL SKILLS

Languages: C++, TypeScript, JavaScript, SQL, HTML, CSS, Tailwind

Frameworks & Tools: React, Next.js, Node.js, Express, Socket.IO, LangChain, Docker, Git, Cypress, Stripe, VS Code

Databases & Auth: MongoDB, NeonDB, Redis, PostgreSQL, MySQL, Prisma, Drizzle ORM, NextAuth.js, JWT

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database

Management Systems, Computer Networks, Theory of Computation and Compiler Design, Web Security, Amazon Web Services (AWS), Cyber Threat and Analysis, Software Vulnerability Testing, Software Engineering

ACCOMPLISHMENTS

CodeForces (Blagosloveniye): Max. **Rating** 1447 (Specialist); Global Ranks: 1617, 2310; Solved 500+ Problems

CodeChef (ethant5698): Max. **Rating** 1900 (Peak 1912), 4 Coder; Global Ranks: 77, 426, 452

LeetCode (Ethan038): **Rating** 2161 (Guardian); Global Ranks: 86, 509, 886; Solved 700+ Problems

CERTIFICATIONS & EXTRACURRICULAR ACTIVITIES

MongoDB Certified Associate Database Administrator

Issued by MongoDB [Credly]

MongoDB Certified Atlas Administrator

Issued by MongoDB [Credly]

Extracurricular Achievements: State-Level Boxing Medalist (Gold, Bronze); National-Level Representative