

ANKUSH VERMA

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TECHNICAL SKILLS

- **Languages:** Java (OOPs), JavaScript (ES6+), C, Python, SQL (MySQL)
- **Frontend:** React.js, Redux, HTML5, CSS3, Tailwind CSS, Material UI, Responsive Design
- **Backend:** Node.js, Express.js, RESTful API Design, JWT, Socket.IO, Mongoose ODM
- **Developer Tools:** Git, Docker, Postman, Vercel, Netlify, AWS (S3/EC2 Basics), Linux CLI
- **CS Fundamentals:** Data Structures & Algorithms, Operating Systems, DBMS, MVC Architecture

PROJECTS

Cognify – AI-Integrated Learning Platform

[Link](#)

MERN Stack, OpenAI API, Hugging Face, Recharts

- **AI Orchestration:** Integrated **OpenAI** and **Hugging Face** APIs to automate summarization and MCQ generation workflows.
- **Data Analytics:** Engineered a real-time dashboard using **Recharts** to visualize user progress and historical trends.
- **System Performance:** Optimized data retrieval by 30% utilizing **Mongoose Aggregation Pipelines** for complex AI datasets.
- **Architecture:** Managed global state via **React Context API**, reducing re-renders and improving frontend responsiveness.

Real-Time Chat Application

[Link](#)

React.js, Node.js, Socket.IO, MongoDB, JWT

- **Latency Optimization:** Architected a full-duplex system via **Socket.IO**, achieving **sub-100ms** message delivery.
- **Security:** Implemented stateless **JWT authentication** with HTTP-only cookies to mitigate XSS/CSRF vulnerabilities.
- **Reliability:** Built custom middleware to ensure 99% connection recovery rates during socket disconnections.

High-Performance Portfolio

[Link](#)

React.js, Tailwind CSS, Framer Motion

- **Optimization:** Engineered a single-page application (SPA) maintaining a **95+ Google Lighthouse score**.
- **UI/UX:** Designed a fully responsive grid system using Tailwind CSS for consistent cross-device performance.

ENGINEERING EXPERIENCE

Full Stack Developer (Academic Projects)

Aug 2023 – Present

Manipal University Jaipur, India

- **System Design:** Engineered 5+ full-stack modules for university applications focusing on reusable component design.
- **Backend:** Developed secure Express middleware and error-handling modules to improve application stability.
- **Workflow:** Leveraged Git for collaborative development, managing branching and peer reviews to ensure code quality.

EDUCATION

Manipal University Jaipur

2023 – 2027

Bachelor of Technology (B.Tech) in Computer Science & Engineering

CGPA: 8.48

Kendriya Vidyalaya No.4, Pathankot

2022 – 2023

Class XII (CBSE) — *Computer Science: 98/100*

87.60%

Kendriya Vidyalaya No.4, Pathankot

2020 – 2021

Class X (CBSE)

87.40%