Aryan Gupta

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science Engineering

Aug 2022 – May 2026 CGPA: 8.86

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, SQL, Typescript

Technologies and Frameworks: Reactjs, Nodejs, Express, Zod, Git/GitHub, Nextjs, Turborepo, PostgressSQL, Docker

Databases and Core Skills: MySQL, Mongodb, Data Structures and Algorithms

PROJECTS

Real-Time Chat Application (Feb 2024 - May 2024)

- Designed and built a real-time chat application using WebSockets with Node.js and Express, enabling instant
 messaging.
- user authentication with JWT-based access control, allowing secure logins and real-time status updates.
- Built group chat functionality with dynamic room creation, ensuring efficient communication among multiple
 users.
- Optimized real-time message delivery using event-driven architecture, reducing latency.
- Integrated MongoDB to store chat history, user profiles, and session data for seamless persistence.
- Enhanced front-end interactivity using React, ensuring a responsive and engaging user experience.
- Key Technologies: Node.js, Express, WebSockets, React, MongoDB, Docker, NGINX

Login and Registration Authentication System (Apr 2024 - May 2024)

- Created a secure user authentication system leveraging Node.js, Express, and MongoDB, ensuring smooth
 registration and login processes.
- Used JWT authentication, strengthening system security.
- Integrated Nodemailer for email-based password recovery, improving account accessibility.
- Enforced cross-origin resource sharing (CORS) and secure cookie handling, preventing security vulnerabilities.
- Designed an intuitive user interface with React, enhancing usability across multiple devices.
- Key Technologies: Node.js, Express, MongoDB, JWT, Nodemailer, React, AWS EC2

Collaborative Document Editing Tool (Sep 2024 - Dec)

- Engineered a real-time collaborative editing platform using WebRTC, Node.js, and Express, allowing multiple users to edit documents simultaneously.
- Implemented automatic synchronization and conflict resolution, ensuring smooth collaboration.
- Integrated role-based access control (RBAC) to manage user permissions securely.
- Developed a version control system to track changes, preventing data loss.
- Optimized performance with server-side caching and WebSocket compression, reducing bandwidth usage.
- An intuitive user dashboard with React, enhancing user experience with a clean and interactive UI.
- Key Technologies: Node.js, Express, WebRTC, React, MongoDB, Docker, Kubernetes

ACHIEVEMENTS

- Successfully completed Hacktoberfest 2024, contributing to open-source projects and improving collaborative coding skills.
- Completed the 100 Days of Code challenge, consistently solving problems and building projects to enhance programming proficiency.
- Solved 230+ Data Structures and Algorithms (DSA) problems on LeetCode and GeeksforGeeks, strengthening problem-solving and coding abilities.