MANAN AGARWAL

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Education

Siddaganga Institute Of Technology	**September 2023 - Present**
Bachelor of Engineering in Computer Science and Engineering(CGPA:9.46)	*Tumkur, Karnataka*
Senior Secondary, CBSE	**June 2023**
Percentage: 89.2%	*Jamshedpur, Jharkhand*
Secondary, ICSE	**June 2021**
Percentage: 94.6%	*Jamshedpur, Jharkhand*

Technical Skills

System and Low-Level Skills: C, C++, Data Structures and Algorithms, Compiler Design, System Design
Cs Fundamentals: Database Management System, OOPs,Operating Systems
Web Development: HTML, CSS, Javascript
Frameworks/Libraries: Bootstrap, Tailwind CSS, Node.js, React.js, Express.js, Turtle
Database: MongoDB, MySQL
Developer Tools: Visual Studio Code, Git, Github, Postman
Soft skills: Event Management, Communication

Projects

Connect: Real-Time Chat Application   **Live: chatting-app.vercel.app**

- Engineered a full-stack real-time chat application featuring instant messaging and responsive UI.
- Implemented secure communication with end-to-end encryption, JWT-based authentication, and robust backend APIs for scalable real-time message handling.
- Designed efficient data storage and retrieval using MongoDB, enabling low-latency message flow and seamless user experience across devices.
- Tech Stack: **React, Tailwind CSS, Node.js, Express.js, MongoDB, Socket.IO, JWT, Encryption.**

SystemCraft: Architect with Clarity   **Live: system-architecture.vercel.app**

- Developed a full-stack system design visualizer with an interactive drag-and-drop interface to create and manage architecture components.
- Implemented secure user authentication and authorization using JWT, along with REST APIs for storing and retrieving user-specific design data.
- Designed a scalable MongoDB data model and optimized frontend state handling to ensure smooth performance for complex system diagrams.
- Tech Stack: **React, Framer Motion, Node.js, Express.js, OpenAI API, JWT, MongoDB.**

CPU Scheduling And Process Simulator

- Implemented a custom simulator for OS scheduling algorithms (Round Robin, FCFS, SJF) using C++.
- Analyzed context switching, turnaround time, and CPU utilization.

Achievements

- ∗ Secured 1st position at robotics workshop among 30 teams.
- ∗ Completed 200+ questions on Leetcode.
- ∗ Completed C++, DBMS course on Codechef.

Position Of Responsibility

Decoders - The Official Programming Club of S.I.T. | Member	**May 2024 – Present**
	Tumkur,Karnataka

- ∗ Worked in a **team** to conduct various **coding** challenges and events at the institute**.**
- ∗ Promoting coding culture in the college campus**.**

Avalanche - Feel Accelerated. | Member(Treasurer)	**May 2024 – Present**
	Tumkur,Karnataka

- It is an event management organization which conducts cultural events as well as technical workshops**.**
- GOONJ INDIA: Goonj is a non profit organization working to bring equity and dignity between cities and villages using under-utilised urban material.It undertakes disaster relief, humanitarian aid and community development in parts of 23 states across India. It focuses on clothing as a basic but unaddressed need. **.**