Sachin Yadav

📞 +91 8920013954 | ✉ sachintmg666@gmail.com | 🔗 LinkedIn | ⚙ GitHub | 🌐 Portfolio

Education

B.Tech, Indian Institute of Information Technology Nagpur *2021-2025*
Electronics and Communication Engineering *CGPA:8.08*

Projects

Edulity *Live Link*

- Spearheaded the architecture of a microservices-based Edtech platform using the MERN stack, deploying a scalable RESTful API with Node.js and Express.js, and designing a modern UI with React.js to enhance user experience.
- Led the migration to Vercel, Render, Cloudinary, and MongoDB Atlas, implementing optimizations cloud-based infrastructure for scalability and performance, reducing load times by **40%** .
- Enabled seamless transactions with Razorpay and enhanced user authentication with JWT, increasing security and transaction efficiency, thereby facilitating learner course access and instructor content curation.
- **Tech stacks used :** HTML, Tailwind, JavaScript, React.js, Chart.js, Node.js, Express.js, MongoDB.

Rail Reservation System Using C++ *Live Link*

- Engineered a train reservation system in C++ enabling users to register, log in, book and cancel tickets, view train details, make payments, and provide feedback, thereby enhancing user experience and system reliability.
- Applied OOP principles (encapsulation, inheritance, polymorphism) and advanced file handling techniques for data persistence, resulting in a robust and maintainable system.
- Integrated secure user authentication, comprehensive error handling, and rigorous data validation, ensuring system integrity and reliability.
- **Tech stacks used :** C++.

Social Media Application *Live Link*

- Developed a social media platform enabling users to share posts, comments, and like content seamlessly, with a modern dark mode for improved user experience.
- Ensured platform accessibility across various devices and integrated a like feature that increased post engagement by**30%**. It provides an engaging and convenient way for users to connect and share their ideas.
- Optimized server performance by **70%** through Node Cache deployment, resulting in faster data retrieval and improved server responsiveness
- **Tech stacks used :** React, JavaScript, CSS, MongoDB, Express, Node, Firebase.

Technical Skills

- **Languages:** Java, C++, HTML, CSS, JavaScript.
- **Frameworks/Libraries:** Redux, Node.js, Express.js, MongoDB, Material-UI Bootstrap, Tailwind.
- **Developer Tools:** Git, GitHub, VS Code, Firebase, IntelliJ.
- **Core:** Data Structures and Algorithms, Object-Oriented Programming (Oops) , Database Management System (DBMS) , Computer Networks, Operating System.

Achievements

- **Winner** of the GPT 3.5 Solvathon at Tantrafiesta by developing a Mental Health Counseling Bot.
- Achieved **3 Star** on CodeChef with a rank of **301st** in the weekly contest.
- Solved over **500+ problems** on LeetCode with a contest rating of **1855** max.
  Link

Position of Responsibility

- **Hostel Secretary :** Managed resident complaints, organized events, ensured facility upkeep, and maintained a safe living environment.
- **Training and Placement Cell Coordinator :** Coordinated 25+ career development workshops and networking events, establishing partnerships with 30+ industry leaders; achieved a **20%** increase in successful student placements within one academic year