Somil Agrawal

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EDUCATION

VIT Bhopal University   Expected Aug 2026

B.Tech, Computer Science Engineering   CGPA: **7.89/10**

TECHNICAL SKILLS

Languages: C++, C, Java, SQL, HTML, CSS, JavaScript   **Frontend:** React.js, TailwindCSS
Databases: MongoDB, MySQL, PostgreSQL   **Backend:** Node.js, Express.js, REST APIs
Cloud/DevOps: AWS, Render, CI/CD Pipelines   **Other:** Git/GitHub, Web-Scraping, NLP Integration

EXPERIENCE

Birlasoft – Intern/Apprentice   Oct 2024 – Dec 2024

- Contributed to backend development in Node.js and Express.js with a focus on secure, scalable APIs.

- Assisted in building and enhancing backend features under the guidance of senior developer.

- Collaborated with the team in writing clean, maintainable JavaScript code and understanding API design principles.

- Strengthened understanding of databases and REST APIs, contributing to minor tasks in internal applications.

PROJECTS

OneLife: AI-Powered Healthcare Management Platform

MERN Stack, Gemini API, WebSockets, Web Scraping   *Dec' 2025*

- Developed a full-stack AI-powered hospital management platform using MERN stack with secure JWT authentication, HIPAA-compliant data handling, and role-based dashboards.

- Integrated Gemini API for an intelligent medical chatbot providing symptom analysis, appointment triage, and doctor recommendations, alongside real-time telemedicine via WebSockets.

- Engineered scalable infrastructure with AWS, Docker, and CI/CD pipelines, including automated billing (Razorpay), web scraping of WHO/health data, and responsive EHR workflows for 100+ users.

Chat-App: Real-Time Messaging Platform

MERN Stack, Socket.IO, JWT Authentication, Vercel Deployment   *Sept' 2025*

- Developed secure real-time chat application with JWT-based authentication, one-to-one messaging, and dynamic online/offline status tracking using Socket.IO.

- Designed scalable backend with Node.js, Express.js, and MongoDB, enabling persistent chat storage, media sharing, and user profile management.

- Deployed on Vercel with responsive React + TailwindCSS UI, optimized session handling, and improved user retention through seamless authentication flow.

CERTIFICATIONS

- Full Stack Web Development by Udemy

- Front-End by Meta

- Cloud Computing by NPTEL

EXTRACURRICULAR

- Solved 500+ DSA problems across various platforms

- Successfully organized various Club events in campus