

# Somil Agrawal

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## Education

VIT Bhopal University

Bhopal, Madhya Pradesh

*BTech in Computer Science and Engineering(CGPA:7.8)*

Sep 2022-Present

## Technical Skills

- Languages: Python,C++,SQL(MySQL)
- Web Technologies: JavaScript(ES6+),HTML5,CSS3
- Backend Development: Node.js,Express.js
- Cloud & DevOps: AWS,CI/CD

## Experience

**Birlasoft** [🔗](#)

Oct 2024-Dec 2024

Node.js Intern/Apprentice

Project: OneLife

- Sole Developer of an end-to-end hospital management platform using Node.js, Express, and MongoDB, deployed on Render
- Implemented role-based access control (JWT authentication) for 3 user types (admin/doctor/patient) with 100% secure data isolation

## Projects

**Hand Face Rapid Response System(HFRRS)** [🔗](#)

Feb

2024-May 2024

- Engineered an AI-powered recognition system with 95% predictive accuracy for real-time gesture and facial expression detection.
- Integrated 5+ web browser features to enhance user experience and interaction.
- Deployed an automated email alert system triggered by emergencies, reducing response time by 40%.
- Trained deep learning models using TensorFlow with over 100,000 labeled images, ensuring high precision.
- Enhanced system performance, achieving a 30% improvement in real-time processing speed.

**One Life** [🔗](#)

Jan 2025-Feb 2025

- Engineered a full-stack healthcare platform with role-based dashboards (Admin/Doctor/Patient) using MERN stack, achieving 95% system uptime.
- Integrated WebSocket for real-time patient-doctor messaging and AI chatbot (Dialog flow) for symptom analysis, reducing support queries by 35%.
- Implemented Razorpay payment gateway with automated invoice generation, cutting payment processing time by 50%.
- Designed a responsive UI with dark mode and optimized EHR workflows, improving doctor-patient interaction efficiency by 25%.
- Deployed secure JWT authentication and encrypted patient records, ensuring HIPAA compliance.
- Scaled to handle 100+ concurrent users during load testing with <1s API response latency.

## Certifications

- Web Developer by Udemy [🔗](#)
- Front End by Meta [🔗](#)

## Co-Curriculars

- Technical Team member in Data Science club