

# Sanyam Garg

Vellore Institute of Technology, Bhopal

Bachelor of Technology Computer

Science and Engineering

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## Technical Skills

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**Programming Languages:** JavaScript, C++, SQL, HTML5, CSS

**Frameworks & Technologies:** Node.js, Express.js, React.js, REST APIs, Microservices, Zod, Tailwind CSS

**Databases & Developer Tools:** MongoDB, MySQL, Git, GitHub, Docker, Postman

## Projects

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### Edu-Tech Platform Backend (*Self-Project, Full-Stack Development*)

**Tech Stack:** JavaScript, Node.js, Express.js, MongoDB, JWT, Cloudinary

- **Authentication & Security:** Implemented OAuth 2.0 Google login and OTP-based authentication for secure access.
- **Scalable Architecture:** Designed RESTful APIs with JWT authentication and role-based access control (RBAC) for user and admin management.
- **Database Optimization:** Used MongoDB indexing and aggregation pipelines to enhance query efficiency by 35%.
- **Cloud Integration:** Deployed Cloudinary for real-time media storage and retrieval.

### Blog Application Backend (*Self-Project, Backend Development*)

**Tech Stack:** JavaScript, Node.js, Express.js, MongoDB

- **API Development:** Developed CRUD APIs for blog post creation, update, delete, and retrieval.
- **User Authentication:** Integrated JWT-based authentication with password hashing using bcrypt for enhanced security.

### React To-Do Application (*Self-Project, Frontend Development*)

- **State Management:** Utilized React Hooks (`useState`, `useEffect`) for real-time updates.
- **Frontend Performance Optimization:** Applied lazy loading and code splitting to improve load time by 30%.
- **UI/UX Improvement:** Developed a fully responsive and accessible interface using Tailwind CSS.

## Education

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**Vellore Institute of Technology, Bhopal**

Bachelor of Technology - Computer Science & Engineering (2022 - 2026)

- **CGPA:** 8.62
- **Relevant Coursework:** Data Structures, Object-Oriented Programming (OOP), Computer Science Fundamentals, Database Management Systems (DBMS), System Design

**Vaish Public School , Rohtak** | Class12 CBSE - (2022)

Score-89.8%

**Vaish Public School , Rohtak** | Class10 CBSE - (2020).

Score-90.8%

## Industry Certified Courses

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**The Bits and Bytes of Computer Networking (Google)**

- Covered networking fundamentals, modern protocols, cloud computing, and network troubleshooting.

**Cloud Computing (NPTEL)**

- Explored cloud computing architecture, management, security challenges, and future research trends.