

Sanjay Verma

Software Engineer

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Summary

A passionate Software Engineer with a Bachelor's degree in Computer Applications (BCA). Skilled in developing and implementing clean, efficient, and maintainable code for dynamic and user-centric software applications. Adept at collaborating with product managers, designers, and fellow engineers to understand requirements and deliver high-quality software solutions. Experienced in debugging, testing, and optimizing applications to ensure reliability and performance. Committed to continuous learning and staying up-to-date with the latest industry trends and technologies.

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript
- **Frontend Technologies:** HTML5, CSS3, SCSS, ReactJS, Nextjs, Angular, jQuery, TailwindCSS, MaterailUI, Framer, ReactEcharts
- **Backend Technologies:** Node.js, Express.js
- **Database & APIs:** MongoDB, MySQL, RESTful APIs
- **Version Control & CI/CD:** Git, GitHub
- **Cloud:** Familiar with AWS (EC2, IAM)
- **Analytics/Monitoring Tools:** PostHog
- **Testing:** Unit Testing, Debugging
- **Methodologies:** Agile/Scrum
- **Tools:** VS Code, Pycharm, Postman, Docker
- **Embedded Systems/Hardware:** Arduino

Work Experience

Full Stack Developer Intern

Rancho Labs, IIT Delhi | [March 2025] – Present

- **Frontend:** Developed UIs for the LMS, E-commerce site, and internal tools using Next.js, TypeScript, and Framer.
- **Backend:** Built backend services for user management, content delivery, and product handling using Prisma and AWS.
- **Containerization & Deployment:** Utilized Docker for containerization and deployed services on AWS to ensure scalability.
- **Analytics:** Integrated PostHog for real-time analytics and user behavior tracking.
- **Embedded Systems:** Collaborated on Arduino-based integrations for smart product features.
- **Impact:** Improved user experience, system scalability, and data-driven insights across platforms.

Technologies Used: AWS (EC2, S3), Docker, Next.js, Prisma, TypeScript, Arduino, PostHog, Framer

Software Engineering Intern

Admiral India(EUI Ltd) | [July, 2024] – [Dec-2024]

Project: Pulse Assessment – Online Assessment Platform

- **Frontend Development:** Designed and implemented user interfaces for generating, managing, and creating assessments, including displaying evaluation results. Used Angular 18+, Material UI, and TailwindCSS.
- *Impact:* Enhanced user experience by providing an intuitive interface for HR teams to create assessments, view results, and track real-time evaluations.
- **Backend Development:** Developed functionalities for secure link generation, assessment creation, and storing responses. Implemented an auto-evaluation system that processed candidate answers and

provided real-time feedback. Used Firebase for real-time data management and Bitly for URL shortening.

- *Impact: Enabled secure and efficient test link management, automated candidate evaluation, and reduced manual effort in grading.*

- **Technologies Used:** Angular 18+, TypeScript, Material UI, TailwindCSS, Firebase, Bitly.
- **Collaboration & Growth:** Worked closely with cross-functional teams, contributing to debugging, testing, and optimizing the platform. Continuously improved skills through learning and peer reviews.

Personal Projects

AniBowl – Animal Feeding NGO

Technologies: Angular 18+, Firebase, SCSS

- Developed an NGO web application for feeding animals using Angular 18+ for the front-end and Firebase for data management.

CodeLib – Education Problem-Solving Platform

Technologies: Angular 18+, Firebase, SCSS

- Developed an educational web application that allows users to upload and solve problem-solving questions, leveraging Firebase for database management.

Webpage Authentication – Secure Web Application

Technologies: Express.js, Handlebars, MongoDB, JWT, Bcrypt

- Developed a secure web page with Express.js and Handlebars, implementing user authentication with bcrypt for hashing passwords.
- Integrated JWT (JSON Web Tokens) for secure session management and cookies for persistent authentication.

Education

Master of Computer Application (MCA)

IMT Faridabad Campus, MDU Rohtak, India | [Aug, 2024] – [2026]

- Currently pursuing MCA in First year, with a strong academic background in Computer Science Engineering.

Bachelor of Computer Application (BCA)

DSEU (AIT), Delhi, India | [Nov, 2021] – [May, 2024]

- Completed BCA with a strong academic background in Computer Science Engineering.

Certification

Python Crash Course | Google | [May, 2023]

- Gained foundational knowledge of Python programming, covering topics such as data structures, functions, and libraries to build real-world applications.

Introduction to Backend Development – Meta | [July, 2023]

- Acquired an understanding of backend development concepts, focusing on server-side technologies, databases, and APIs to build scalable web applications.