

Ankit Kumar Yadav

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Technical Skills

- **Languages:** C++, JavaScript (ES6+), Java, SQL, Python, TypeScript
- **Frontend:** React.js, Next.js, Redux, Tailwind CSS, HTML5, GSAP
- **Backend & Database:** Node.js, Express.js, PostgreSQL, MongoDB, REST APIs
- **DevOps & Tools:** Docker, Git/GitHub, Jenkins, Postman, Linux, VS Code
- **Core Competencies:** Data Structures & Algorithms, System Design, OOP, SDLC

Experience

PG Robotics Intern
Moonpreneur India Pvt. Ltd., San Jose (USA)

Jul 2025 - Present

- Architected embedded solutions using C++ and Python, improving module response time by 20%.
- Collaborated with engineering teams to integrate IoT sensors with cloud monitoring dashboards.
- Optimized firmware for low-power microcontrollers, enhancing system energy efficiency.
- Implemented rigorous testing protocols to ensure system reliability and fault tolerance.

Key Projects

SkillPrep AI – AI-Powered Mock Interviewer

Oct - Dec 2025

Full-stack platform leveraging Generative AI for technical interview prep.

- Engineered robust **Node.js/PostgreSQL** backend for efficient session management.
- Integrated LLMs to provide real-time, context-aware feedback on code and speech.
- Optimized API endpoints to achieve <200ms latency for seamless user interaction.
- Designed responsive **React.js** interface utilizing custom hooks for state management.

Tech Stack: React.js, Node.js, PostgreSQL, Express.js, AI Integration

Inside Fashion – Scalable E-commerce App

Jan - Apr 2025

B2C e-commerce platform built for high scalability and user engagement.

- Developed dynamic product catalog and cart system using the **MERN Stack**.
- Implemented JWT authentication and Stripe Gateway for secure transactions.
- Optimized **MongoDB** indexing, reducing product search query time by 40%.
- Increased retention by 25% via streamlined checkout and responsive UI design.

Tech Stack: React.js, Node.js, Express.js, MongoDB, Redux, JWT

Certifications

- Complete Interview Preparation - C++ (Data Structures) – *GeeksforGeeks*
- Server-side Backend Development Specialist
- Advanced Web Development (HTML, CSS, JavaScript)

Nov 2024

Mar 2024

Mar 2024

Education

Lovely Professional University, Punjab
B.Tech - Computer Science and Engineering; **CGPA: 7.38**

Aug 2022 - Present

Army Public School, Lucknow, U.P.
Intermediate (CBSE); Percentage: 80.80%

2021

Army Public School, Lucknow, U.P.
Matriculation (CBSE); Percentage: 83.00%

2019