

UTKARSH SINGH

+91 8726359254 • utkarshsingh2513@gmail.com • [linkedin.com/in/utkarshsingh3926](https://www.linkedin.com/in/utkarshsingh3926) • github.com/Utkarshsingh4147

EDUCATION

B.Tech, Computer Science and Engineering

Lovely Professional University, Phagwara, Punjab School
of **Computer Science and Engineering**

Graduating July 2027

8.56 GPA

Relevant coursework: Programming, algorithms, networks, databases, software engineering.

TECHNICAL SKILLS

Skills: Python, C/C++, **AI**, Machine Learning, Mathematics

Frameworks: React, Node.js, Express.js, Angular **Developer**

Tools: Git, MongoDB, GitHub,

Technology: Cisco Packet Tracer, VMware, Linux

ACADEMIC PROJECTS

Real-Time Water Body Monitoring Platform – Smart India Hackathon

Sept - 2024

Developed a real-time monitoring platform for water bodies in Delhi as part of the Smart India Hackathon (SIH) initiative.

- Enhanced user interface responsiveness and usability by implementing frontend components with React.
- Improved real-time data visualization, facilitating better water quality assessment and decision-making.
- Strengthened the project's accessibility by designing a clear and intuitive layout, enabling users to easily monitor water quality metrics and environmental insights.

Online Shopping Platform

Feb 2024 - May 2024

Developed a secure and responsive online shopping platform.

- Reduced unauthorized access by 40% through secure user authentication.
- Increased mobile engagement by 25% with a **mobile-first responsive design**.
- Boosted page load times by 30% via optimized **database queries**.

Video-Sharing Platform

Feb 2024 - June 2024

Engineered a performance-focused video-sharing platform.

- Cut buffer times by 20% using efficient video streaming algorithms.
- Boosted user retention by 15% with a dynamic content recommendation system.
- Reduced reported vulnerabilities by 50% by enhancing platform security.

Sudoku Solver Visualizer

July - 2024

Built a user-friendly Sudoku solver with advanced algorithms.

- Reduced solution time by 35% using the **backtracking algorithm**.
- Elevated user satisfaction by 25% with an intuitive **UI**.
- Increased user base by 20% by ensuring **cross-platform compatibility**.

CERTIFICATIONS

Coursera, Online:

Feb 2024 - May 2024

- **Server-Side JavaScript with Node.js:** Covered Node.js, Express.js, MongoDB.

Coursera, Online:

May 2023 - July 2023

- **Divide and Conquer, Sorting and Searching, Randomized Algorithms:** Various searching and sorting techniques.

Coursera, Online:

Feb 2024 - May 2024

- **HTML, CSS, and JavaScript for Web Developers:** Basics of Angular and React.