

# KARAN YADAV

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## SUMMARY

Enthusiastic **Software Developer** with a strong foundation in full-stack web development and hands-on experience from internships, hackathons and contributions to open-source projects. Passionate about content creation, I produce educational videos on technology and development on YouTube. Skilled in project execution from end to end and in combining software with hardware solutions. Passionate about **problem solving**, collaboration, and exploring AI-driven technologies. Explore my work: [ky.karanyadav](https://www.youtube.com/channel/UCkYkYkYkYkYkYkYkYkYkYkY).

## EDUCATION

**Secondary & Senior Secondary School** June 2022  
CL DAV Public School 9.6 CGPA  
Sector-11 Panchkula, Haryana  
Relevant coursework: Mathematics, Physics, Chemistry, English

**B.E. Information Technology** June 2026  
Punjab University, Chandigarh, Punjab 9.32 CGPA  
University Institute of Technology  
Relevant coursework: Mathematics, Computing, Science & Engineering and Problem solving using programming

## PROFESSIONAL EXPERIENCE

**ZippiAi, Chandigarh: Full-Stack Developer (Next.js, Python, Ffmpeg, Docker, Redis, AWS)** June - Dec 2024  
• Modernized the app's UI/UX, enhancing scalability using Redis, Docker, and AWS. Integrated AI-based video transcription, translation, and clipping features, which were showcased in demos at MSIL (IN) and NSRCEL.

**Uniqus, Chandigarh: Full-Stack Developer (React.js, Node.js, Python, MongoDB, Redux)** Feb - Dec 2024  
• Collaborated with cross-functional teams to design, implement, and deploy new functionalities, including AI-driven features for personalized learning.

**Indian Army, Chandigarh: Software Developer (Python, SQL)** March – May 2024  
• Developed a test management application for Indian Army cadets, enabling test creation, real-time assessments, and detailed reporting.

## PROJECTS

**VidX - An AI-Driven Video Streaming Platform** 2023 - Present  
Built the platform from scratch using Next.js, Tailwind CSS, Nx, Express.js, Node.js, HLS, FFmpeg, AI-driven features.  
• Architected advanced video streaming infrastructure using FFmpeg, HLS, and SRT, enabling adaptive multi-device content delivery. Built AI-powered web-based **video editor** with automated voiceover and intelligent chapter generation.

**HelpReqHub - A Community-Driven Assistance Platform** 2023 - 2024  
Led team of three to design and develop a digital platform dedicated to fostering a culture of empathy and assistance within communities. Built with Next.js MongoDB and Google Products.  
• Focused on social good, supporting United Nations SDGs like No Poverty and Reduced Inequality through feature sets addressing food redistribution and financial assistance.

**Nodelpers - NPM package** 2024 - Present  
Utility library for common helper functions  
• Developed an open-source NPM package providing optimized utility functions for JavaScript/TypeScript projects. Designed for reusability, reducing redundant code across multiple projects.

**Game Engines - Game Development** Oct 2020 - Nov 2024  
Real-Time multiplayer **Chess Engine** and **Pacman** in **Python** using Pygame.

**Notes App 2.0** Oct 2020 - Nov 2024  
Secure and encrypted notes app built with Node.js, Express.js, HTML, CSS, and JavaScript

## ACHIEVEMENTS

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### **Mozilla, Remote: Open-Source Contributor (Javascript)**

Oct 2024 - Present

- Bug reporting on **Bugzilla**, Submitting patches on **Phabricator**. Primary work in **Devtools**.

### **Self-Learning, Remote: Competitive Programmer (Python, SQL)**

Ongoing

- Solved 400+ question on **Leetcode** and **Codeforces**

### **Coffe&Code, Chandigarh: Hackathon Winner (React.js, Vite.js, Node.js)**

Oct 2023

- Secured 1st place in an inter-college hackathon, competing against 30+ teams, showcasing innovative problem-solving and technical skills.

## TECHNICAL SKILLS

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**Web Development:** Next.js, React.js, Vite.js, HTML, CSS, JavaScript, TypeScript, Redux

**Backend Development & Databases:** Express.js, Node.js, Python, MongoDB, MySQL, PostgreSQL, Socket.io

**3D Modeling and Animations:** Blender (3D Modeling), GSAP (UI Animations), Three.js (3D Rendering)

**Programming Languages:** Python, JavaScript, C, C++

**Operating Systems & Dev Tools:** Linux, Windows, Git, Github, VS Code, Firebase, REST APIs, Postman, Nx

**DevOps & Infrastructure Tools:** Docker, Redis, Apache Kafka, Kubernetes, Ffmpeg, AWS