

# TARUN ARORA

Department of Computer Science & Engineering, Chandigarh University

☎ +91-7991386659 ✉ [tarunarora.ta987@gmail.com](mailto:tarunarora.ta987@gmail.com)  [Linkedin](#)

## EDUCATION

### Chandigarh University

*B.E. - Computer Science and Engineering*

**Aug 2022 – Present**

*Mohali, Punjab*

### Sanskar Valley Academy

*Intermediate (CBSE) – 74.3*

**Apr 2021 – Mar 2022**

*Lalitpur, U.P*

### AVM Inter College

*10th (U.P) – 79.4*

**Apr 2019 – Mar 2020**

*Lalitpur, U.P*

## SUMMARY

Computer Science student with hands-on experience in web development, and algorithm design. Skilled in writing efficient, maintainable code and building responsive, user-friendly web applications. Strong problem-solving abilities with a proven track record of analyzing challenges and delivering effective solutions. Developed multiple projects demonstrating technical expertise and a passion for innovation. Seeking opportunities to apply my skills in software engineering and contribute to impactful projects.

## INTERNSHIP

### Thar Digital Services

*Frontend Web Developer Intern*

**Dec 2024 – Jan 2025**

- Designed, developed, and optimized responsive user interfaces using HTML, CSS, JavaScript, improving UI/UX and website performance.

## PROJECTS

### Restaurant Website: HTML, CSS, Javascript

**February 2025**

- Developed a responsive restaurant website with an interactive menu, booking system, contact details, and business hours, handling 500+ monthly visits.
- Designed an intuitive navigation system, enabling seamless menu browsing, gallery viewing, and contact access, leading to a 30 reduction in bounce rates.
- Ensured cross-browser compatibility, making the website function smoothly on 10+ browsers and devices.

### Weather Website: HTML, CSS, JavaScript

**January 2025**

- \* Created a weather website that fetches real-time data from the OpenWeather API, displaying temperature, humidity, wind speed, and weather conditions.
- \* Optimized API requests, reducing response time by 40, ensuring fast and accurate data retrieval.

### Face Recognition Using Python: Open CV

**January 2024**

- \* Engineered a face recognition system capable of identifying individuals with 95 accuracy in images and video streams.
- \* Processed over 100 images, improving recognition speed by 30 through algorithm optimization.

## Publications

- **A Comparative Analysis of Root-Finding Methods for Nonlinear Functions Using Python Programming Language**, *IEEE Xplore*, 2023.  
<https://ieeexplore.ieee.org/document/10830432>  
Conducted a comprehensive comparative study on numerical root-finding algorithms implemented in Python, evaluating their efficiency and accuracy for nonlinear functions.
- **Visitly: Your Gateway to Memorable Stays – User-Centric Online Rental Platform Enhancing the Traveler Experience**, *IEEE Xplore*, 2025.  
<https://ieeexplore.ieee.org/document/10973916>  
Designed an innovative online rental platform addressing user needs through immersive 360° views, Google Maps integration, and secure authentication for an improved traveler experience.

## SKILLS & INTEREST

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**Programming Languages Frameworks:** C, C++, Java, Python, .NET, SQL

**Web Development:** HTML, JavaScript, CSS, React(basic), Bootstrap

**Developer Tools:** Visual Studio Code, GitHub, MS Word, MS Excel

**Cloud/Databases:** MySQL, Oracle.

**Coursework:** Data Structures, Computer Architecture, Operating Systems, Computer Networks, DBMS.

**Interpersonal:** Team Leadership, Project Management, Decision Making, Active Listening, Conflict Resolution

## ACHIEVEMENTS & CERTIFICATIONS

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- \* **Computer Organization and Architecture NPTEL** 2023.
- \* **Cloud Computing NPTEL** 2024.
- \* **Django for Everybody** (Coursera)
- \* **Foundation of Cloud IOT Edge ML NPTEL(Got Elite certificate of top 5% )** 2025.