Kanav Arora

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EDUCATION

UPES, B.Tech spz. Cyber Security and Forensics — August 2022 – Present
CGPA 8.95 — *Dehradun, IN*

O.S.D.A.V Public School, Senior Secondary Education — May 2021 – May 2022
Percentage 90% — *Haryana, IN*

O.S.D.A.V Public School, Higher Secondary Education — May 2019 – May 2020
Percentage 92.6% — *Haryana, IN*

INTERNSHIP

Front-end Intern — May 2023 – July 2023
Behind Methods — *Pune, Maharashtra*

- Developed and optimized UI components using **Less.js**, improving the styling efficiency and maintainability of **a marketing and giveaways platform**.
- Conducted in-depth functional analysis on WYSIWYG and drag-and-drop editors, identifying and resolving UI issues, resulting in improvement in usability and performance.

PROJECTS

Zero Trust VPN Architecture — Jan 2025 - Present
pfSense, Wireguard, OpenVPN, Python

- Built a secure remote access solution using **Zero Trust principles** to reduce the network attack surface.
- Implemented **device posture checks**, **device authorization**, **role-based access**, and **mobile app–based 2FA** to enhance endpoint security.

Secure Web Gateway — Aug 2024 - December 2024
GoLang, NodeJs, MariaDB

- Developed a Web Gateway , implementing **rule-based filtering** for domain and **IP access control**, improving network security and access management.
- Optimized system performance by implementing caching and leveraging Golang concurrency to handle **hundreds of concurrent users** efficiently.

CORE COMPETENCIES

- **Languages:** Java, Python, Bash
- **Tools:** Metasploit, Burp Suite, Nmap, Ffuf
- **Databases:** MySQL, MongoDB
- **Soft Skills:** Problem-Solving, Adaptability, Teamwork, Leadership

ACCOMPLISHMENTS

- Won the **Best White Paper Award** at Student Symposium, part of the International Conference on Advancements in Cyber Security and Digital Forensics 2025, organized by the **School of Computer Science, UPES**
- Won the **Gold Medal** in a Capture The Flag competition organized by Cyber Sentinel UPES Student Chapter
- Received the **Star Performer Award** (2022-2023) for contributions to the UPES Cloud Security Alliance Student Chapter.

POSITION OF RESPONSIBILITY

Technical Committee Member — Oct 2022 – Jul 2023
UPES Cloud Security Alliance Student Chapter — *Dehradun, Uttarakhand*

- Assisted with website development and various technical tasks to support chapter activities.

CO-CURRICULAR ACTIVITIES

Volunteer
Udit Kunj Foundation NGO — *Kaithal, Haryana*

- Collaborated on community outreach programs and contributed to digital initiatives to support the NGO's mission.