



# Kanav

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## EDUCATION

### B.Tech in Cyber Security and Forensics

UPES, Dehradun, Uttarakhand

CGPA: 8.9

Aug 2022 – Present

### Higher Secondary (Class XII)

OSDAV Public School, Kaithal, Haryana

Percentage: 89%

Apr 2021 – Mar 2022

### Senior Secondary (Class X)

OSDAV Public School, Kaithal, Haryana

Percentage: 92.6%

Apr 2019 – Mar 2020

## INTERNSHIP

### Back-end Intern

Behind Methods Co

May 2025 – July 2025

Pune, Maharashtra

- Developed a **WordPress plugin** to manage **mutual fund data** with support for **CSV import**, **custom post types**, and a fully normalized **SQL schema** for categories, sectors, and fund metadata.
- Designed a three-tier **validation system**: **client-side (JS)**, **server-side (PHP)**, and **database-level constraints**, ensuring data integrity, type safety, and protection against malformed or malicious inputs.
- Reduced **import and filter query latency** by up to **60%** through targeted **SQL optimizations**, batch processing, and query profiling.

## PROJECTS

### Identity & Posture-Based VPN | Node.js, Python, WireGuard, OpenVPN

Jan 2025 – May 2025

- Conceived and built a VPN system using **WireGuard** and **OpenVPN**, following a model based on user identity and device posture.
- Developed **Python modules** to assess **device compliance**, including OS patch level, firewall status, and system integrity.
- Integrated **two-factor authentication via mobile application**, using **Node.js APIs** with a **short polling mechanism** to verify authentication status before access is granted.

### Secure Web Gateway | Go, Node.js, MariaDB, ClamAV

Aug 2024 – Dec 2024

- Built a Layer 7 firewall to monitor inbound and outbound web traffic with domain, IP, and reputation-based filtering.
- Integrated **ClamAV antivirus** for malware scanning of web content and downloads.
- Created a web dashboard for visualizing connection logs, outbound request volume over time, and overall system performance.

## CORE COMPETENCIES

**Programming Languages:** Java, Node.js, Python, Bash

**Databases:** MariaDB, PostgreSQL

**Networking & Protocols:** OSI & TCP/IP Stack, VPN Tunneling, Packet Analysis

**Security Tools:** Metasploit, Burp Suite, Nmap, Ffuf

**Miscellaneous:** Git, Linux, Containerization (basics)

**Research Interests:** Zero-trust security model, software-defined networking, secure and fail safe system design

## ACCOMPLISHMENTS

- Secured **Runner-Up** position in **HackFest 2025 CTF**, organized by **Mile2** at UPES, with a score of **99.2%**.
- Awarded **Best White Paper** at the **UPES Student Symposium**, held under the **International Conference on Advancements in Cyber Security and Digital Forensics 2025**.
- Won **Gold Medal** in a university-level **Capture The Flag** competition conducted by the Cyber Sentinel Student Chapter at UPES.
- Recognized with the **Star Performer Award** (2022–2023) for significant contributions to cloud security awareness and technical engagement in the UPES Cloud Security Alliance Student Chapter.

## POSITION OF RESPONSIBILITY

### Technical Committee Member

UPES Cloud Security Alliance Student Chapter

Oct 2022 – Jul 2023

Dehradun, Uttarakhand

- Collaborated on the development and enhancements of the chapter's website, ensuring a user-friendly interface.
- Provided technical support for cloud security initiatives, improving the chapter's visibility and member engagement.