Avinash Sharma

## [Linkedin: avinash-sharma-me](https://www.linkedin.com/in/avinash-sharma-me) Email:avinasharma.2412[@gmail.com](mailto:avinasharma.2412@gmail.com)

[Github: github.com/hail0hydra](https://github.com/hail0hydra) Mobile: +91-9503305347

# Experience

**HackTheBox** Since July 2023

### HackTheBox - cyber security training ground, endorsed by industry leaders

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Demonstrated expertise as a Capture The Flag player on HackTheBox platform, achieving the

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rank of Hacker.

* + Solved 30+ machines of easy to hard difficulty levels, with global indiviual ranking of 808 and global team ranking of 62
  + Developed a strong understanding of various cyber security concepts, methodologies, and tools by solving challenging machines

**CTF Administration and Development**  Since April 2022

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### CTF dev - OSINT, Crypto, Steganography, Binary Exploitation, Reverse Engineering, Misc

Developed custom CTF challenges for CTF competition, covering a range of cybersecurity

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domains, including binary exploitation, reverse engineering, stegnography, forensics and

cryptography.

* + Provided technical support and guidance to participants during the competition, addressing inquiries and assisting with challenge-related issues.

# Projects

#### PyVTFile - Python, API, Hashing, Encryption: Jan 2023

* PyVTFile is an easy to use desktop application for detecting if a file is malicious or not.
* PyVTFile is capable of processing files up to 32 MB in size, accommodating a wide range of file types and sizes.
* The project supports various operating systems, including Windows, Linux, and MacOS , ensuring broad accessibility and usability across different computing environments.
* Project link: <https://github.com/hail0hydra/PyVTFile>

#### CTF Development - Linux, Python, Stegno, Reverse, OSINT, Forensics: Aug 2023

* Multiple CTF challenges ranging from intermediate to advance level
* Focused on promoting ethical hacking practices by organizing CTF events
* Operated platform (CTFd) that serves as an advanced security training ground, enabling individuals to enhance their cybersecurity skills

#### Port Scanners - Python, Bash, Sockets: Jun 2022

#### Simple ports scanners screated in python and bash (seperately) using socket

#### Bash script for port scanning, demonstrating ability to automate repetitive tasks and integrate shell scripting

#### leveraging sockets for network communication, enhancing understanding of TCP/IP protocols and network security assessment techniques

#### Project link: <https://github.com/hail0hydra/PNPT-Live/tree/main/Homework>

#### JAVira – Java, Crypto, Hashing: Feb 2023

* JAVA Project to analyze a file and create logs along with other features.
* Project link: <https://github.com/hail0hydra/CSE-310_Java_CuppaCohee/tree/divergence/Project/JAVira>
* Implemented API programming
* Utilised VirusTotal for Malware reports

# Certificates

## Python OOP - Udemy. Aug 2021

## Learnt OOPs concept with Python

## Link: <https://www.udemy.com/certificate/UC-c77e126b-d1a6-4e9b-8c34-c374d628f016/>

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* How to create and hack your own live server – MSTC Punjab Mar 2023
  + Learnt about servers and security
  + Link: <https://certificate.givemycertificate.com/c/918ce92a-bdf6-4183-8cff-87574949eb52>
* Complete Beginner Learning Path - TryHackMe Jun 2022
  + Learnt introductory Cybersecurity concepts
  + Link: <https://tryhackme-certificates.s3-eu-west-1.amazonaws.com/THM-PVMYQJRC2N.png>

# Skills

* **Languages**: Python, SQL, C, C++, Powershell, Batch, Javascript, JAVA, Lua
* **Frameworks**: HTML and CSS, NodeJS, React
* **Tools/Platforms**: MySQL, MongoDB, Git, Neovim, VS Code, Postman
* **Soft Skills**: Problem-Solving Skills, Team Player, Project Management, Adaptability, Leadership

# Education

**Lovely Professional University** Punjab, India

### Bachelor of Technology - Computer Science and Engineering Since August 2021

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**Kendriya Vidyalaya No.1 AFS Pune** Pune, Maharastra

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### Intermediate; **Percentage: 89%** April 2019 - March 2021

**Kendriya Vidyalaya No.1 AFS Pune** Pune, Maharastra

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### Matriculation; **Percentage: 95%** April 2017 - March 2018