

Karan Sharma

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<https://karanS08.me>
<https://github.com/karanS08/>

Education

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|-----------|---|-------------------|
| 2020-2024 | Chandigarh University SGPA 8.15 Bachelor of technology in Information Technology | Punjab, India |
| 2019-2020 | 12th (SENIOR SECONDARY EXAMINATION) Score: 75% Central Board of Secondary Education | Dharamshala,India |
| 2017-2018 | 10th (SECONDARY EXAMINATION) CGPA: 6.9/10.0 Central Board of Secondary Education | Dharamshala,India |

Projects

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|---------------|---|
| November 2022 | Robotic Arm https://github.com/karanS08/Robotic-Arm The robotic arm is a 6 DOF fully automated arm made using self 3D printed parts .Worked with Micropython, Arduino, 3d Printers and 3d modelling software. Used Inverse Kinematics to write logic. |
| October 2022 | CTF-Tools Repository, GitHub https://github.com/karanS08/ctf-tools CTF-Tools repository was a valid repository to participate in the Hacktoberfest 2022. Created a repo to make a database of all the major CTF tools CTF players use. The repository crossed 400 commits from more than 100 Contributors. Received over 100 PRs and 80+ stars. |
| July 2022 | AWS VPN Hosted a VPN server on AWS to connect with local routers at my home, Used the amazon free tier to launch an EC2 virtual machine Open-VPN on it and after configuring the routing table it was connected to my home network, |
| July 2022 | AWS Static Website http://karans-webpage.s3-website.ap-south-1.amazonaws.com Hosted a static website on the AWS S3. Used Amazon free tier to create a S3 bucket, changed its bucket policies and uploaded the website resources. Used AWS static webpage hosting to host the page. |
| March 2022 | Portfolio Website https://karanS08.me A HTTPS web page made using JavaScript, CSS and HTML. Made the page user responsive, the Stars follow the mouse while hovering over the website. The page is hosted on GitHub under custom domain name, configured SSL certificate A records to get https. |
| March 2022 | Tic Tac Toe Game https://karanS08.me/Tic-Tac-Toe-Game/ An online hosted web game made with pure JavaScript. The game has an AI built into it with which a user can play. It's very challenging to beat the AI on the hardest difficulty. |
| December 2021 | IP Locator A python based application which asks the user for the IP address and returns the last known location of the IP. The application uses REST-API to fetch 10 different data attributes from the IP finder records and gets the information to the local terminal. |
| July 2021 | Web-Scraper with python A web scrapper written in python which was capable of scrapping data from the Official University website(CUIMS) in JSON format and then display it in the terminal. It could fetch student attendance, date sheet and marks and display it in table formats. |
| June 2021 | Web automation with selenium in Python An application which automated the process of logging into the online classes platform used by Chandigarh University (Blackboard Collaborative) and navigation to the class environment on the scheduled time. Integrated python to work with web attributes and performing web related actions (Filling login form, sending Clicks etc.). |

March 2021

Covid 19 statics desktop notification application

Used the REST-API framework to make calls for Corona official records, store them in a local file and send a notification of the records every 6 hours to the user in a notification format at the lower right of the desktop with a notification sound.

Skills

Technical

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|-------------------------|--------------------------|
| 1. Python | 2. Linux |
| 3. AWS | 4. Git and GitHub |
| 5. C++ | 6. HTML, CSS, JavaScript |
| 7. Embedded Programming | 8. IoT Development |

Inter-personal

- | | |
|--------------------|---------------------|
| 1. Decision making | 2. Team Leadership |
| 3. Problem Solving | 4. Time Utilization |

Co-curricular

Open-Sourcing <https://github.com/karanS08/ctf-tools>

Continuously taking part in Hacktoberfest from 2 years and have been a maintainer in 2022, the repository got more than 100 forks and 80+ stars. Learned about making forks, making PRs, accepting PRs etc.

CTFs

Participate in various CTFs to improve problem solving capabilities, can solve forensics and crypto challenges to an intermediate level. Participated in major challenges e.g. HTB apocalypse 2022, HTB apocalypse 2021, NahmCom 2022, SurakshaThon 2022 etc.

TryHackMe <https://tryhackme.com/p/karanS08>

It is an online platform that teaches cyber security through short, gamified real-world labs. Have a “**Hacker**” badge on the platform with 4400+ points. Knowledge on Topics like Privilege Escalation, Reverse Engineering, PWN, Cryptography, Digital Forensics.

Hackathons

Participate in various hackathons organized by the university or other government bodies. Participated in hackathons like Google DevFest'22, I-Neuron Hack-a-thon(Jaipur), Smart India Hackathon, Hack-the-Fest etc.

Specializations & Courses

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|------------------------------------|---|---------------|
| Nptel | Software Testing | November 2022 |
| Infosec, Coursera | Python For Cybersecurity | June 2022 |
| Internshala Training | Cloud computing with AWS | June 2022 |
| IBM, Coursera | IBM Cybersecurity Analyst | April 2022 |
| Johns Hopkins University, Coursera | HTML, CSS and JavaScript for Web Developers | April 2022 |
| Learn2Quest, Coursera | Learning Linux For LFCA | March 2022 |
