

# Harishankar Kumar

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## EDUCATION

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- **Thapar Institute of & Engineering Technology** Patiala, Punjab  
*Bachelor of Technology - BTech; 8.6 CGPA* 2020 – 2024
- **Kendriya Vidyalaya No 2** Ferozepur Cantt, Punjab  
*XII, PCM; 95% Boards* 2007 – 2020

## OPEN SOURCE AND VOLUNTEERING

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- **Google Summer of Code** Remote, Remote  
*Contributed to ScummVM under GSoC'23 - [Project link](#)* May 2023 - Sept 2023
  - **Audio Mixers and Graphics:** Added support for new audio formats and improved frame rendering algorithms including optimizations and pixel-by-pixel drawing.
  - **Virtual Machine and Simulation:** Improved support for new games while fixing various bugs in simulator.
  - **Compiler Optimization:** Fixing bugs in compilers and adding edge cases in code, Compiling Lingo to C++ using Yacc Parser.
  - **BuildBot (CI/CD):** Fixed deployment warnings, memory leaks and added support for screenshot matching between subsequent builds.
  - **Debugging:** Using tools like GDB, and ASAN to debug and fix memory leak, segmentation faults and debugging any bugs in code.

## PROJECTS

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- **LibMcServerProxy:** Android java library that uses **VPNService** and **Packet spoofing** to emulate minecraft servers as LAN Servers by forging Raknet broadcast UDP packets **[Link \(GitHub\)](#)**
- **xTIntranet:** A terminal cli for emulating **LANs connectivity in blocked IPv4 environments** by using proxy and IPv6 packet redirection, It creates tunnels and converts packets from-to different formats **[Link \(GitHub\)](#)**
- **Ishe:** A terminal application that uses airmon-ng and ARP Poisoning to **sniff packets** and **perform MITM attacks** on a network. (Python, Scapy, Airmon-ng) **[Link \(GitHub\)](#)**

## HONORS AND ACHIEVEMENTS

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- **HackTU 2023 Winner:** Collaboration of Societies, Awarded 20k rupees for developing Finfy financial training app
- **SIH' 2022 Winner:** Government hosted biggest student hackathon promoting problem-solving through technology
- **Maketahon 3077 (2021) Winner:** Hosted by Microsoft Learn Student Chapter (MLSC) Society
- **Hackclipse 2021 Winner:** Created Pustika, book reselling platform that is my first university hackathon experience

## MISCELLANEOUS

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- **Content Analysis of Twitter conversations associated with Turkey-Syria Earthquakes**  
*Research paper published under ICDAM 2023 Conference, analysing turkey-syria earthquakes by tweets*
- **Data Structures and Algorithm**  
*Solved more than 400+ questions on various platforms, profiles: leetcode, geeksforgeeks, codingninjas*