

# Harishankar Kumar

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## EDUCATION

- **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

- **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.
  - **BuildBot (CI/CD):** Fixed deployment warnings, memory leaks and added support for screenshot matching between subsequent builds.
  - **Compiler Optimization:** Fixing bugs in compilers and adding edge cases in code, Compiling Lingo to C++ using Yacc Parser.
  - **Debugging:** Used tools like GDB, and ASAN to debug and fix memory leak, segmentation faults and debugging any bugs in code by line-by-line analysis.
  - **Virtual Machine and Simulation:** Improved support for new games while fixing various bugs in simulator.

## EXPERIENCE

- **Hobbyist Developer (Android)** Remote  
*Indie* *Lifetime*
  - **Xenone for Blockman Go:** Developed a highly successful utility tool for the game Blockman Go, with 250k+ installations and revenues exceeding 80,000 Rs (\$1,000). **View on Play Store**
  - **Vortex Connect - Online Multiplayer Solution:** Developed lobby-based solution for Minecraft servers. 16k installs with 1k+ active users and testers. Created using Android Native (Java). **View on Play Store**
- **Content Writing** Remote  
*Blogging/Posts* *Lifetime*
  - **Content Writing:** Writes technical and non technical blogs, including tutorials, real life experiences, step-by-step walkthrough, demo/proof of concept work etc! **Blog Link**

## PROJECTS

- **MeraAadhar:** An application where user can book operators for **doorstep Aadhar updation**. Winner of Smart India Hackathon 2022 (Team SHARK), **awarded 1 lakh rupees**. (Flutter, Django, FastAPI) **Link (Linkedin Post)**
- **WaterInator:** IoT to **upload water purity parameters to blockchain** for automatic inspection, web dashboard for analysis. Unesco-India-Africa Hackathon Finalist, offline hack with 22 African countries. (Solidity, NodeJS Backend)
- **NovelNation:** A **novels reader and management application**, it includes offline reading, different font/styles settings and library of reads with progress (Android Native, Java) **Link (GitHub)**

## HONORS AND ACHIEVEMENTS

- **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
- **Hacklipse 2021 Winner:** Created Pustika, book reselling platform that is my first university hackathon experience

## MISCELLANEOUS

- **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*