

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.
 - **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.
 - **Network Project Mentor:** Spearheading network project while [Link to drive resources here.](#)
- **Societies** Patiala, Punjab
Mentor at Google Developer Student Clubs Sept 2021 - Present
 - **Quantum Computing Workshop:** Conducted workshop on quantum computing for Qiskit Fall Fest 2022 with 100+ participants. Session recording.
 - **Quantum Computing Project:** Contributed as proofreader and editor for Quantum Computing study materials, involving multiple concepts. GitHub repository.*Member at Microsoft Learn Student Chapter* Jul 2021 - Jun 2022
 - **Event Speaker:** Conducted workshop attended by 100+ students on game development by using graphic library SDL2 and C++, [Link to photos here.](#)

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](#)

GAMES

- **DevNakes:** Developed a 2D classic snake game during the DevLauncher's Game-A-thon using C++, SDL2, and Emscripten.
- **Shapes 2D:** Created a casual mobile game where players catch green shapes while avoiding red and yellow ones. Published on the Google Play Store.
- **BlackWorld:** Designed and developed a 3D parkour game using Unity as part of an academic elective in gaming and animation.
- **RaspMyBerry:** Raspberry Pi Moderator and status tool using discord client.

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)**
- **BubbleBoxModel**: A set of jupyter notebooks that allows to identify speech bubbles in manga panels, It can segment image and support language translation as well. (Tensorflow, Keras, Pytorch) **Link (GitHub)**
- **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)
- **Contexto**: Conducted NLP project analyzing millions of tweets on a specific topic, providing valuable insights for policymakers, market analysis, and trend identification. Published a research paper on the same! (Python, Pandas/Dask, LDA, BERT)
- **FaceAI**: A face recognition system that compares an image against single/multiple images. (Python, OpenCV, InsightFace, ArcFace) **Link (GitHub)**
- **Pustika**: A **book reselling platform** for getting cheap second handed books, included buying and selling and a portal to advertise current stock. (Flask, SQLAlchemy) **Link (GitHub)**
- **LogSecure+**: Automated compliance breach detection system using large language models for multi-source log analysis. Aims to ensure organizational adherence to constantly evolving compliance and regulatory policies. (Python, LangChain, LLMs)
- **RaspMyBerry**: Raspberry Pi Moderator and status tool using discord client.

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