

Harishankar Kumar

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EDUCATION

- **Thapar Institute of Engineering & Technology** Patiala, Punjab
Bachelor of Technology - BTech; 8.72 CGPA 2020 – 2024

OPEN SOURCE AND VOLUNTEERING

- **Google Summer of Code** 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:** Fixed bugs in compilers and adding edge cases in code, Compiling Lingo to C++ using Yacc Parser
 - **Debugging:** Using tools like GDB and ASAN to debug and fix memory leak, segmentation faults and debugging any bugs in code

EXPERIENCE

- **AI Search (Neurotask AI Private Limited)** Remote
Co-Founder - AI Search: Uncovering User Intent, Crafting Human-Centric Search - Landing Page Oct 2023 - Present
 - **Fullstack Engineer:** Developed ReactJS frontend with 30+ REST API endpoints using FastAPI
 - **Search Optimization:** Implemented AI techniques like vector embeddings and researched NLP methods to optimize search results, Improved NDCG score by 15%
 - **Generative AI:** Developed GenAI pipelines and used GPT's to power search results and core components, Improving results by 40%, Developed search result summarizers, query to filters generator, and more
 - **DevOps and Deployment:** Maintained dev/prod environments and dockerized 8+ microservices with scripts for one-click deployments
 - **Logging and Telemetry:** Used Signoz and OpenTelemetry to monitor and log thousands of requests per day from 400+ functions, Generating insights and improving performance

PROJECTS

- **Aniwall:** Responsive grid filled with anime characters, with more details when clicked (ReactJS) **Link (Tweet)**
- **UNIAutoMate:** University dashboard and issue tracker to automate hostel related activities, Makeathon 3077 Winner. (ReactJS) **Link (Github)**
- **Many More YT Extender:** Chrome extension that integrates anime/movies from external sites into the YouTube interface through javascript injection, automatically blocks advertisements! (Javascript, Chrome Extensions) **Link (Github)**
- **Decentralized Survey App (DeSu):** Revolutionizes survey-taking by staking, **incentivizing participants**, and ensuring anonymity when giving surveys through blockchain technology. (ReactJS, Motoko, NodeJS) **Link (Devpost)**

HONORS AND ACHIEVEMENTS

- **HackTU 2023 Winner:** Collaboration of Societies, Awarded 20k rupees for developing Finfy financial training app
- **Smart India Hackathon 2022 Winner:** Won 1 lakh rupees for doorstep updation Aadhar app, Largest govt hack
- **Maketahon 3077 (2021) Winner:** Largest intra-university hack, hosted by Microsoft Learn Student Chapter Society
- **Hackclipse 2021 Winner:** Created Pustika, book reselling platform that is my first university hackathon experience