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**: Using tools like GDB, and ASAN to debug and fix memory leak, segmentation faults and debugging any bugs in code.

EXPERIENCE

- **AI Search** — Remote
  Co-Founder - AI Search: Uncovering User Intents, Crafting Human-Centric Search — *Oct 2023 - Present*
  - **Fullstack Engineer**: Developed ReactJS frontend with secure REST APIs for business layer logic, enabling seamless one-click deployments and other features using FastAPIs and MongoDB.
  - **RabbitMQ/Microservices**: Implemented an event-driven architecture with decoupled services for search, scraping, background tasks, and more. Included essential features such as logging, monitoring, and scalability.
  - **Web Scraping Service**: Designed a web scraping service using scrapy servers and scrapyd, synchronized with the event-driven architecture. Supports cron jobs and on-demand scraping.
  - **Search Optimization**: Enhanced search capabilities by feeding crawled data into ElasticSearch. Implemented AI techniques like vector searching/embedders and researched NLP methods to optimize search results.
  - **DevOps and Infrastructure**: Dockerized the entire application stack and created scripts for one-click deployments to servers. Maintained agile development environments for efficient development processes.

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
- **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