

RAGHAV SHARMA

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ABOUT ME

I am Raghav Sharma, a tech enthusiast, and an avid programmer. Currently, I am in my second year at Thapar Institute of Technology pursuing my bachelor's in Computer Science engineering. I create innovative solutions for everyday problems. I am a hardworking student who enjoys tinkering with electronics and aims to solve core issues with technology. My domain is mainly in backend development, DevOps, and automation.

EDUCATION

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, PATIALA | Sept. 2020 - Present

Bachelor of Engineering in Computer Science, 2024

STEPPING STONES SECONDARY SCHOOL | 2019-20

PCM - CBSE, Central Board of Secondary Education (Grade XII)

EXPERIENCE

EXECUTIVE MEMBER

Microsoft Learn Student Chapter | 2021 - Present

EXECUTIVE MEMBER

Linux User Group | 2020 - Present

PROJECTS

Notion-DiscordBot | Python, Docker, Google drive API (July 2021)

- Developed a link management system using Python consuming Notion API to manage links in Notion via Discord
- Setup Google Drive API to upload files in Gdrive
- Containerised the application to enable running it in a Docker container
- Repository Link: <https://github.com/Servatom/Notion-DiscordBot>

Notefy | Django, Django Rest Framework, HTML, CSS, React.js (July 2021 - Present)

- A note-taking app with subtle yet attractive UI
- Built a REST service using Django Rest framework serving React frontend
- Implemented OAuth for the application
- Repository Link: <https://github.com/Servatom/notefy>

Smart-Home-Doorbell | Python, Telegram Bot Library, IBM Watson Text-Speech API, IoT (February 2021)

- Sends a photo to the owner of the house when a person rings the bell. Allows owner to communicate with guest
 - Clicking photos from an onvif camera and storing it on a server
 - Used Telegram Bot library for communication.
 - Converts message of owner to speech for the guest
 - Using a combination of raspberry pis and central hub running on linux
 - Repository Link: <https://github.com/raghavTinker/Smart-Home-Doorbell>
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PROJECTS (CONTD)

Home-lab-server | Linux, Networking, Server management, virtualisation, PC building (2015 - Present)

- Built a home server that:
 - > Samba File server/ Plex Media Server
 - > Replacement of Time Capsule to backup macOS machines over time machine
 - > CCTV system built on open source project MotionEyeOS
- A virtualisation Machine
 - > Runs a custom Pfsense router which serves internet to the house. Has two WANs for failover internet access
 - > Windows VM for backing up files of all Users over Syncthing
 - > Also Runs a VM where the <https://servatom.com> site is deployed.
- Built a homelab where I can experiment with different tools and ideas.
- IoT lab where I can deploy many different IoT projects. With a combination of Raspberry pis, nodemcus
- Docker server to deploy various different docker images for testing

discord-music-bot | Python, Docker, music player, discord bot (July 2021)

- Developed a music bot for discord using discord.py
 - Used spotify apis and youtubedl players for playing music
 - Containerised the application to enable running it in a Docker container
 - Repository Link: <https://github.com/raghavgtinker/discord-music-bot>
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ACHIEVEMENTS

- Winners - Laberinto, a CTF event by CCS, TIET.
 - First Runner Up - Quarter Quell by MLSC, TIET.
 - Finished among top 10 teams in HackTU, a 72-hour hackathon.
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TECHNICAL SKILLS

Domains: Backend Development, DevOps , iOS App development

Skills: C/C++, Python, Swift, Shell scripting (basics), Server management, Docker, Kubernetes, Flask, DRF, Automation

Developer Tools: Git, Docker, Linux, Travis-CI, VS-Code, Vim, Jupyter Notebooks