

Amritpal Singh

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Skills

- **Tools:** Archlinux, Fedora, Ubuntu, Mint, Debian, Docker, Podman, Git
- **Languages:** C, C++, Python, HTML, CSS, Javascript, x86_64 Assembly, Bash
- **Other Relevant information:** Custom Linux Kernel, Self Hosted services, Homelab, Publishing and maintaining a package on AUR.

Education

I.K.G. Punjab Technical University, B.Tech in Computer Science and Engineering

CGPA: 7.4
Aug 2023 – April 2027,

Open-Source Experience

Homelab Setup

Homelab Docs

- Homeserver based on a Thinkpad based system with 2-drive storage bay
- Constant Battery based AC Backup, with a 200 Mbps Optical Fiber Link (4g based sim backup)
- Proxied behind Oracle ARM Ampere Instance via FRP (websockets and TLS), with monitoring at **Uptime Page**

slash_tmp (Temporary File Host Server)

Pull Request List

- Key Contributions with important features
- PR: Fix Payload Sizes, Implement SSL Encryption (HTTPS support)
- PR: Chunking of files with upload and download, Signal Handling

TLP (Laptop Power Management Utility)

Commit: 9f3ff4

- Fix startup failure in TLP in certain environments (busybox)

Projects

matrix

Linux, Web Service, Docker

- Matrix Homeserver hosted on Linux, proxied behind Oracle VPS
- Encrypted Chat Platform Hosting
- Supports Voice and Video calling (Dockerized)

Copyparty

Linux, File Server, System

- Portable File Server
- Multi user accounts
- Proper filesystem level permission management.

Blocky DNS

Linux, DNS Resolver, Docker

- DNS-over-TLS, DNS-over-HTTPS support
- Relies on external proxies to bypass censorship

Jellyfin

Linux, Media Library, System

- Media and Content Library Management
- Account based access with library privileges
- Serves media without a CDN

Jellyseerr

Linux, Media Requester

- Media and Content Library Requester
- Account based requests with Admin-only approval