

Gourav Meena

Jaipur, Rajasthan

[Email](#)

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[Github](#)

Education

B.Tech, Computer Science & Engineering^{2024 – 2028}

Indian Institute of Information Technology Nagpur (IIITN)

Higher Secondary (Science — PCM)²⁰²⁴

Rajasthan Board of Secondary Education

Projects

wssThing ²⁰²⁶

C · Networking · OpenSSL · kqueue

- Built a minimal WebSocket library in C from scratch implementing RFC 6455 — including handshake, framing, masking, and TLS via OpenSSL.

postOffice ²⁰²⁶

FastAPI · SQLAlchemy · SQLite

- Developed a temporary file sharing service exposing clean REST endpoints for direct upload and download.
- Used SQLAlchemy and SQLite for lightweight metadata persistence with TTL-based file expiry and shareable link generation.

subDog ²⁰²⁶

Python · asyncio · aio

- Built a high-concurrency subdomain enumerator leveraging async DNS resolution for significantly faster scan throughput than synchronous alternatives.
- Supports configurable concurrency limits, wordlist-based enumeration, and structured output filtering.

transferThing ²⁰²⁵

C · POSIX Sockets

- Built a cross-platform CLI tool for peer-to-peer file sharing over local networks using raw POSIX sockets (Linux/macOS).
- Implemented chunked transfer protocol with peer discovery, progress reporting, and zero runtime dependencies.

PlaylistThing ²⁰²⁵

Python · FastAPI · Spotify API · YouTube Music

- Built a playlist sync tool that migrates YouTube Music libraries to Spotify using OAuth2 and fuzzy track matching.
- Automated playlist creation and deduplication across both platforms via their respective REST APIs.

Technical Skills

Languages: HTML, CSS, C, C++, Python, Javascript, Typescript, Bash, SQL

Frameworks: Astro, FastAPI

Libraries: SQLAlchemy, asyncio, aioudns, Discord.py

Databases: SQLite, MySQL, PostgreSQL

Tools: Git, GitHub, Neovim, Docker, Linux, Vercel

Operating Systems: Arch Linux, Ubuntu, Windows, MacOS

Extracurriculars & Activities

Junior Web Developer — CRISPR Technical Club, IIITN

- Building web presence and internal tools for the technical club; collaborating on full-stack projects.