



Shashwat Verma

Bachelor of Technology (Pursuing)
in Computer Science and Engineering
Birla Institute of Technology, Mesra, Ranchi

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EDUCATION

Degree	Institute	CGPA/Percentage	Year of Completion
Bachelor's	Birla Institute of Technology, Mesra	7.957 (as of 05/2024)	2026 (Expected)
Intermediate	Jawahar Vidya Mandir, Shyamali	95.00%	2021
Matriculation	Jawahar Vidya Mandir, Shyamali	92.33%	2019

PROJECTS

- Dropdex** October 2023
Rust, Dropbox, Axum [GitHub](#)
 - Intermediary server to provide self-owned endpoints to access Dropbox Business storage. Communicates with Dropbox API and uses Axum to proxy data privately. Handles more than 100 concurrent users without any load balancing.
 - Reqwest-based wrapper for Dropbox API is used, with Axum providing server functionality. Allows for the listing and downloading of files and folders.
 - Serves as a proxy between the user and the Dropbox API, shielding sensitive credentials from the user. Complete backend capability that can be seamlessly integrated with any frontend.
- Folderclone** July 2023
Rust, Google Drive, Tokio [GitHub](#)
 - CLI utility to ease folder copy in Google Workspace. Uses Google Drive v2 API and Tokio's async green threads to perform multitude of requests, fast. Managed a 100% performance increase compared to previous existing solutions.
 - Tokio threads are used for non-blocking API queries, clap is used to parse command-line input, and Google's Drive v3 API is used to manipulate files and folders on Google Workspace Drives.
 - Achieved a copy rate of more than 200 files per second, which is equivalent to 85-90% of the allowed rate limit and service accounts used.
- RedditTG** October 2022
Python, Telethon, AIOHTTP [GitHub](#)
 - Purely web-scraping based Telegram bot to fetch posts from Reddit. Sends scraped posts from chosen subreddits, and supports allowlisting, filtering and scheduling. Presently serves over 1000 users.
 - Uses requests, regex and bs4 to obtain and parse posts and subreddits, Telethon library to send the media to Telegram channels.
 - Asynchronous programming is employed to take advantage of all the functions written and modules used that are async, as most calls performed by the bot are blocking.

TECHNICAL SKILLS

- Programming Languages:** Python, Rust, C, Java, Shell scripting
- Tools:** Git, Github Workflows, Cloudflare Workers, REST APIs, Docker, Heroku, Oracle Cloud
- Frameworks:** FastAPI, Axum, SQLx, Telethon
- Databases:** MongoDB, Cloudflare R2/D1/KV, Redis, MySQL, PostgreSQL
- APIs/SDKs:** Telegram API, Google Drive API v3, Dropbox API v2, Google Admin SDK Directory API
- Operating Systems:** Windows, Ubuntu, Arch Linux

RECENT ACHIEVEMENTS

- International Quant Championship, May 2024:** Led the best performing 4-people team in BIT, Mesra with sub-300 global rank, achieved GOLD LEVEL on the WorldQuant BRAIN platform with 10,000+ alpha score and qualified for Stage 2 of IQC (among Top 0.8% teams from Stage 1).
- eBAJA SAEINDIA, March 2024:** Secured 3rd Rank among teams from all over India in the Innovation Event, representing Team Aveon Racing, held at BVRIT, Narsapur.
- fetch.ai's Hackfest, December 2023:** Qualified for and participated in the final round of Hackathon organised at IIT, Bombay.
- Capture The Flag, October 2023:** Secured 2nd Rank in Capture-The-Flag event held by IEEE Student's Chapter at BIT, Mesra.
- Tesla's BMS and Battery Sponsorship, September 2023:** Attained Tesla's BMS Sponsorship for the 2024 season for Team Srijan Electric.

PERSONAL SKILLS

- Data Structures and Algorithms & Competitive Programming:** [LeetCode](#)
- Cybersecurity:** [HackTheBox](#)
- PCB Designing:** EAGLE, Altium Designer
- Microcontroller Programming:** MicroPython, Embedded C