

# 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