

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
B. Tech.	Birla Institute of Technology, Mesra	8.01 (as of 12/2024)	2026 (Expected)
12th	Jawahar Vidya Mandir, Shyamali	95.00%	2021
10th	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.

EXPERIENCE

- **WorldQuant BRAIN** December 2024 - Present
Research Consultant [BRAIN](#)
 - Conducted quantitative research and analysis to develop predictive algorithms for financial markets.
 - Designed and optimized models to forecast fluctuations and movements across diverse financial instruments.
 - Leveraged statistical methods, machine learning, and data-driven insights to enhance trading strategies.

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

ACHIEVEMENTS

- **eBAJA SAEINDIA, February 2025:** Winner among around 150 college teams from all over India in the Innovation Event, representing Team Aveon Racing, held at BVRIT, Narsapur.
- **Smart India Hackathon, September 2024:** Selected to represent BIT, Mesra for the Smart India Hackathon 2024.
- **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).
- **fetch.ai's Hackfest, December 2023:** Qualified for and participated in the final round of Hackathon organised at IIT, Bombay.

PERSONAL SKILLS

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