# Shashwat Verma

Bachelor of Technology in Computer Science and Engineering Birla Institute of Technology, Mesra, Ranchi github.com/Imyr shashwatverma.dev linkedin.com/in/shashv shashwatverma2273@gmail.com

#### **EDUCATION**

Degree	Institute	CGPA/Percentage	Year of Completion
B. Tech.	Birla Institute of Technology, Mesra	8.09	2026 (Expected)
12th	Jawahar Vidya Mandir, Shyamali	95.00%	2021
10th	Jawahar Vidya Mandir, Shyamali	92.33%	2019

#### **PROJECTS**

### Dropdex

Rust, Dropbox, Axum

github.com/Imyr/dropdex-rs

- 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.
- Request-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

 $Rust,\ Google\ Drive,\ Tokio$ 

github.com/Imyr/folderclone-rs

- 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

• Google

May 2025 - Aug 2025

Software Engineering Intern

Bengaluru, Karnataka

- Implemented SVG decoding in a Photos image processing library, to enable native support for vector graphics in Google-wide services, including Workspace Editors.
- Built a wrapper for a Rust-based SVG rendering library, using Crubit for Rust/C++ interop, while toggling specific features as recommended by a formal security review on the launch.
- Migrated Sheets' reliance from a deprecated rendering service.

### • WorldQuant BRAIN

December 2024 - April 2025

Quantitative Research Consultant

platform.worldquantbrain.com/profile/public/SV67881

- 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/C++/Java
- Tools: Git, Github Workflows, Cloudflare Workers, Docker, Heroku, Oracle Cloud Infrastructure
- 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
- Data Structures and Algorithms & Cybersecurity: leetcode.com/u/Imyr, app.hackthebox.com/profile/1703457
- PCB Designing: EAGLE, Altium Designer
- Microcontroller Programming: MicroPython, Embedded C++

### 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).

### Positions of Responsibility

- Team Aveon Racing: Joint President & Powertrain and Control System Specialist
- Birla Institute of Technology: Network Operations Secretary